ENGLISH

ITALY

GERMANY

FRANCE

Flat SELFSAT™ Satellite Antenna

SELFSAT-H35DSERIES

User's manual
Bedienungsanleitung
Manuel d'utilisation
Manuale utente

REV. 1.0

www.self-sat.com

ENGLISH

Contents

What is SELFSAT-H35D?

| What is SELFSAT-H35D? 2

Safety Instructions

| Safety Instructions 2

Box Content

| Box Content 3

How to Install?

| How to Install? 4

| Step 1 : Where to Install? 4

| Step 2 : Check Information 5

| Step 3 : Part Assembly 5
- 1) Fix Skew (Joint Angle Bracket and Antenna Body) 5
- 2) Fix Elevation (Joint Antenna Body and Main Support) 5
- 3) Installation of Fix Bracket A 6
- 4) Joint Antenna Body and Fix Bracket A(B3) 6

| Step 4 : Connecting the Antenna and the Set top box 6
- A) How to prepare the cable? 7
- B) How to connect the cable to the antenna and the set top box? 7

| Step 5 : Fine Tuning and Fix the Bracket 7

Troubleshooting Check List for Initial Installation

| Troubleshooting Check List for Initial Installation 8

Loss of Signal / Rain Fade

| Loss of Signal / Rain Fade 8

What is SELFSAT-H35D?

SELFSAT-H35D is a Horn Array Type Satellite Antenna with Dual Linear Polarization, it can receive signal from major Satellites and would replace a normal former Parabolic Dish.
Small, discreet and easy to use, it can be installed in a few minutes.
SELFSAT-H35D can be used for both free to air and encrypted (requiring a subscription with an operator) channel reception; it can also receive all High Definition channels with a superior image quality. For the use and installation, please read the following instructions and installation materials carefully.

Do you have a TV's at home more than one?

H35D2

H35D4

Then, take SELFSAT built in multi LNB output

It is possible to watch 2 channels with H35D2
Also, 4 channels with H35D4

Safety Instructions

- Before using this product please read this manual carefully and follow exactly all installation, mounting & orientation instructions.
- All the instructions should be followed in order to avoid any technical problems.
- Any electric or magnetic field close to the SELFSAT-H35D may cause a bad reception or even cut off the signal completely.
- Do not drill the plastic cover of the antenna, which seals the antenna from moisture.
- Handle the antenna with care as any impact will cause damage to the electronics.
- Do not open the cover, any attempt to repair by a non-qualified person can be dangerous and void the warranty.
- Any obstacle (buildings, trees, etc....) will block the reception of the signal from the satellite to the antenna.
- Do not paint or add any substance on the antenna cover, this will block the reception of the signal from the satellite.
- The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal.
- The use non- isolated jacks will result in a loss of the signal level.
- Tighten all the screws of the antenna once you have finished the adjustments.
- This product contains one universal LNB, it is forbidden to add, change or modify the LNB.
- For more precise details on the above points or for any information, please ask your retailer or customer service.

Warning

Antennas improperly installed or installed to an inadequate structure are very susceptible to wind damage. This damage can be very serious or even life threatening. The owner and installer assumes full responsibility that the installation is structurally sound to support all loads (weight, wind & ice) and properly sealed against leaks. The manufacturer will not accept liability for any damage caused by a satellite system due to the many unknown variable applications.

Box Content

No	Symbol	Part name	Image	Quantity
1	A1	Antenna Body		1
2	B1	Angle Bracket		1
3	B2	Main Support		1
4	B3	Fix Bracket A		1
5	B4	Fix Bracket B		2
6	B5	Spanner		1
7	C1	Compass		1
8	S1	Screw M6x18 SEMS2		3
9	S2	Screw M6x50 SEMS2		1
10	S3	Round Head Square Neck Bolt M6x50		3
11	S4	Round Head Square Neck Bolt M6x75		4
12	N1	Flanged Nut M6		7

How to Install?

By following the instructions step by step, you can proceed easily to install SELFSAT-H35D by yourself or with the help of a professional antenna installer.

Before installing your antenna, you check that SELFSAT-H35D box contains all the items listed above in the 'Box Content'. In the event of any missing parts, please contact your distributor.

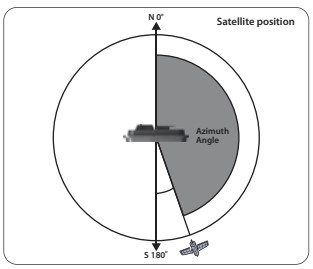
Step 1: Where to Install?

In order to receive a signal from the Satellite, SELFSAT-H35D is to be installed in an open loop space (outside the house or the apartment), in the direction of the satellite towards the equator, for which, you will need a compass to exactly orient SELFSAT-H35D toward the satellite.

Note
please take reference to the table of the Azimuth angles specified in the back pages of this manual.

< Compass >

< Azimuth Angle >



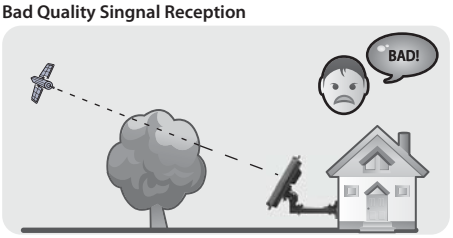
Note
To ensure an accurate compass reading, stay away from large metal objects, specifically electrical cables and then make multiple readings.

Make sure that there are no obstacles in front of SELFSAT-H35D which can decrease the signal reception quality, such as buildings or trees (you may keep in mind that trees will grow and may block the signal).

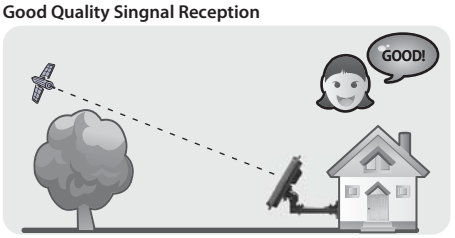
In order to be able to fix and install your antenna easily, you might choose an easily accessible place without any potential danger for installation.

Think about the way you might pass your cable in a discreet way from the SELFSAT-H35D to your Set top Box. The antenna should not be too distant from your satellite receiver; a cable longer than 30 meters may decrease the quality of the signal.

Bad Quality Singnal Reception



Good Quality Singnal Reception

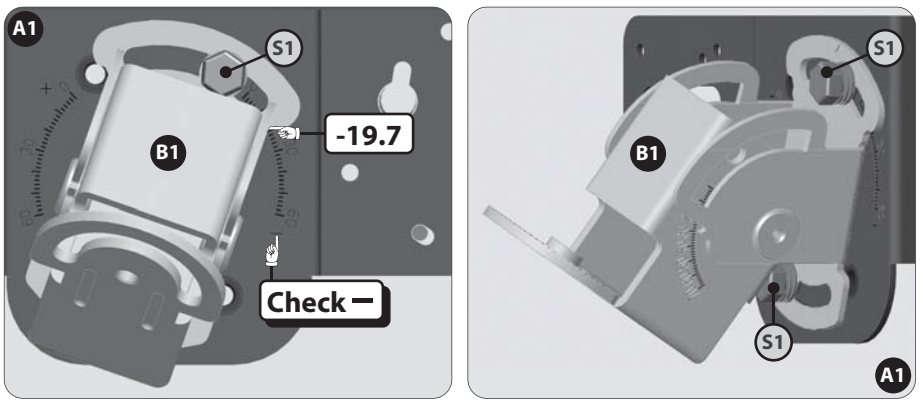


Step 2: Check Information

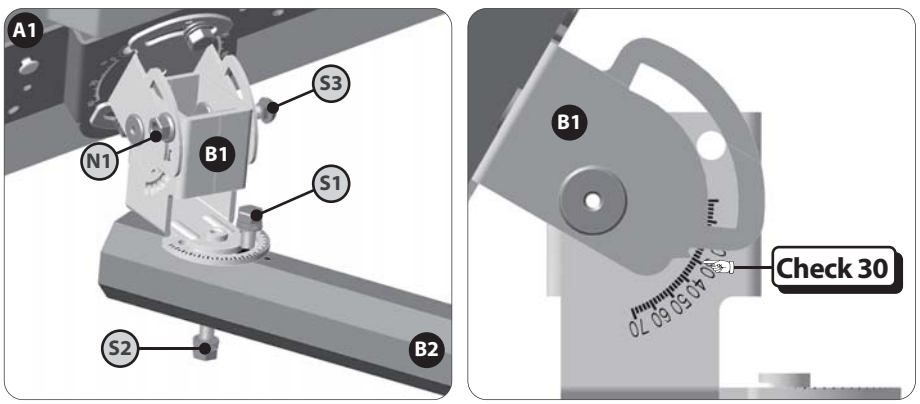
In order to install antenna, you need to find skew, elevation and azimuth angle by referring the table on the back of the manual. If you can't find your location, please refer to the information of the nearest place from your location. This manual will show you the installation example to receive ASTRA1 satellite in Brest region of France. The angle information for Brest region is Skew : -19.7, El : 30, Az : 149.6

Step 3: Part Assembly

1) **Fix Skew (Joint Angle Bracket and Antenna Body)**
   Joint Angle Bracket and Antenna Body by screw adjusting skew angle at -19.7

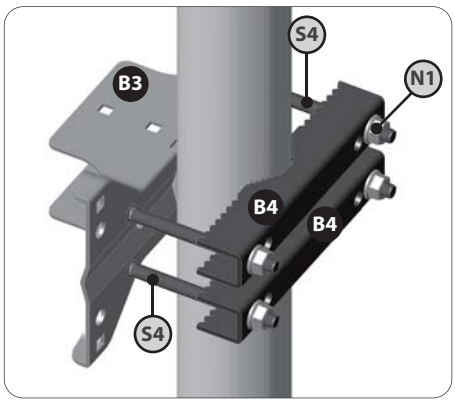


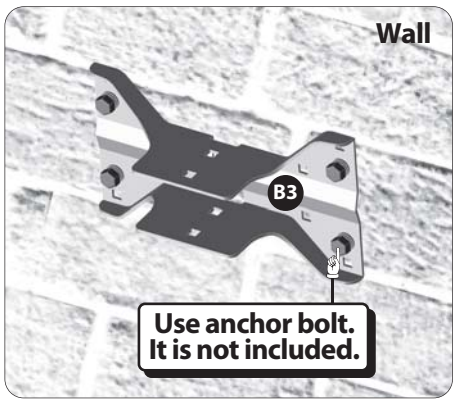
2) **Fix Elevation (Joint Antenna Body and Main Support)**
   Joint Antenna Body and Main Support. For delicate adjustment elevation and azimuth angle, please don't fix bolt and nut tightly.



3) **Installation of Fix Bracket A**

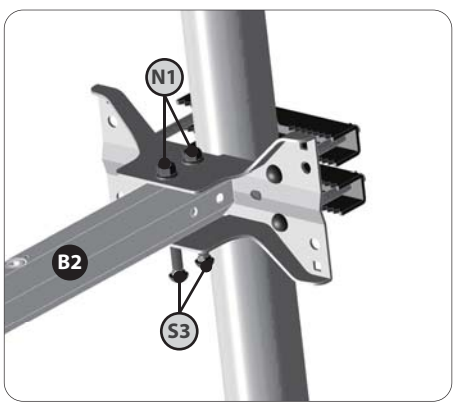
You need to install Fix Bracket A(B3) considering installation place (Clamp Type, Wall Mounting Type). Make sure that direction should be toward satellite. In order to support antenna, nut (N1) should be jointed as tightly as it can. Please purchase anchor bolt separately for wall mounting installation.

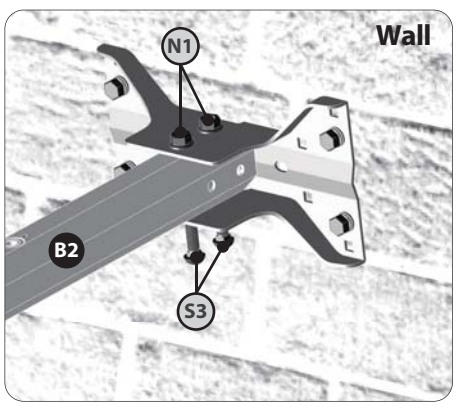




4) **Joint Antenna Body and Fix Bracket A(B3)**

Joint assembled Antenna Body and Fix Bracket A.
In order to support antenna, nut (N1) should be jointed as tightly as it can.



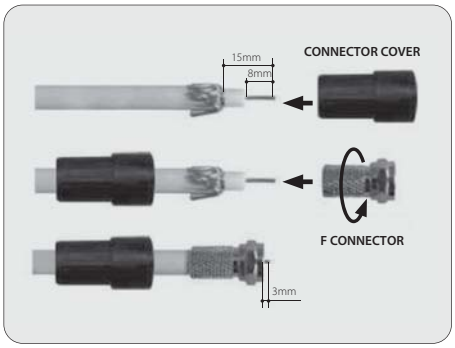


Step 4: Connecting the Antenna and the Set top box

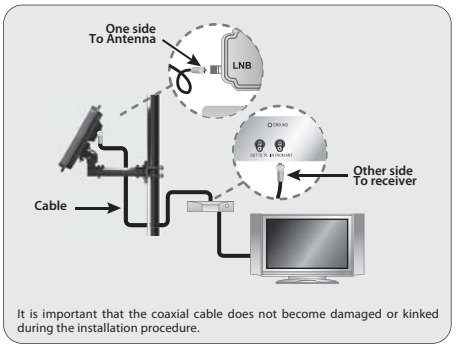
Once you have installed the antenna in an open loop space and mounted the way you want it to be the next step is to connect it all together.

In order to be able to watch your favorite satellite programs, you need to connect your satellite antenna to a receiver by a cable. The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal. The use of a long or bad quality cable and not isolated jacks can cause a loss of the signal level, it would be preferable to use an RG6 Coaxial cable (HF 17VATC or 19VATC cable), in order to minimize a signal loss.

A) How to prepare the cable?



B) How to connect the cable to the antenna and the set top box?



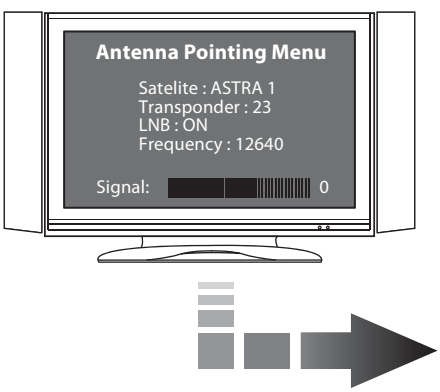
It is important that the coaxial cable does not become damaged or kinked during the installation procedure.

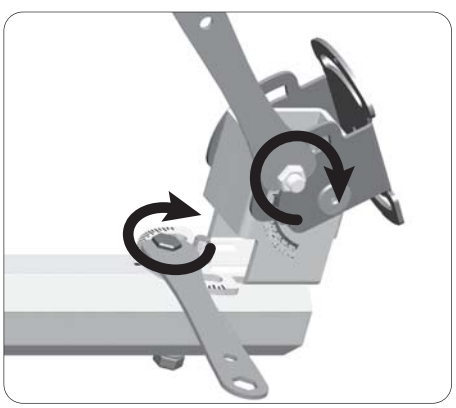
Step 5: Fine Tuning and Fix the Bracket

Once fine tuning is completed for signal reception, please tighten bolt and nut.

Once all connected, turn on the TV and the Satellite receiver.
Select the Antenna Pointing Menu on your set top box.
You can check signal level on your TV.
Do not forget to choose "LNB : ON"
You will need someone to stay in front of the TV to tell you when the signal is "good" while you're outside trying to adjust the antenna the best way possible.

The signal level and quality is indicated on the TV screen and will fluctuate and change colour according to the adjustment & movement of the antenna while you are pointing & finding (azimuth, elevation angle).
The level indicates the power of the signal and the colour is the signal reception quality from the chosen satellite.





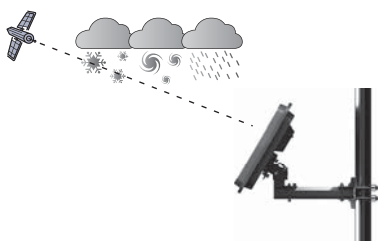
Troubleshooting Check List for Initial Installation

If the signal is not found, be sure the receiver user manual and the antenna user manual have been followed closely, check the following:

- Make sure all cable connections are correct and each connection is seated / tightened properly
- Inspect the inside of each cable connector for dirt or possible connector to case/shield short.
- Verify the Azimuth, Elevation and Tilt angles for your location by ZIP code.
- Make sure the Tilt and Elevation pointers are aligned correctly to the scales. Do not use washer or bolt as reference.
- Make sure the Tilt adjustment is not changed from the recommended setting for the antenna location.
- Remove existing TV-specific components, such as TV splitter, etc; reduce the installation to the basic connections called out in this guide. Such components may not work with the satellite signal and they may be in the wall where you can't see them. When in doubt. Run RG6 cable directly to your receiver.
- Make sure there are no obstructions (trees, buildings, windows, corner or overhang of your roof, your body or hands) – the signal does not pass leaves, branches, glass, etc.
- RG 6 cable with solid copper center conductor is highly recommended because it has much lower DC voltage drop compared to RG 6 cable with a copper-coated, steel center conductor.
- Standard RG 59 cable causes too much DC drop and signal drop; it cannot be used to pass the satellite signal. RG 6 coaxial cable must be used.
- Some after-market, off-the-shelf add-on components may not be as advertised. They might not work or could cause additional DC drops and signal amplitude attenuation. Remove such components. Go back to the basic connections called out in this manual and re-verify.
- Make sure the satellite cable is connected to the "Sat In" jack, not the "Antenna In" jack, The "Antenna In" jack at the back of the receiver is for off-air antenna input or cable TV input.
- If all are done correctly but the signal is still not found. Change the Elevation adjustment of the antenna slightly (±2°, then ±4°from the called-for setting) and repeat the procedure.
- Make sure the Access Card from your receiver is fully inserted into the Access Card slot and oriented correctly.

Loss of Signal / Rain Fade

- The satellite signal may be lost temporarily due to unusually heavy rainfall. An optimally aligned antenna, along with the shortest possible cable run, minimizes the chances of "rain fade."
- Make sure the antenna is mounted securely to prevent it from being blown out of alignment in a heavy wind.
- Heavy snow accumulation on the antenna may reduce the satellite signal strength, snow should be swept away as soon as possible.
- Tree foliage growth into antenna's line-of-sight to the satellite may result in gradual loss of picture.



Sommario

Che cosa è SELFSAT-H35D?

| Che cosa è SELFSAT-H35D? 2

Sicurezza

| Sicurezza 2

CONTENUTO DELLA CONFEZIONE

| CONTENUTO DELLA CONFEZIONE 3

Installarla

| Come installarla? 4

| Fase 1: Dove installarla? 4

| Fase 2: Scelta dell'installazione 5

| Fase 3: Collegamento dell'antenna e del Set top box 5
1) Regolare lo Skew (staffa B1 sul corpo dell 'antenna A1) 5
2) Regolare l'Elevazione (unire il corpo antenna con il supporto principale) 5
3) Installazione di una staffa fissa 6
4) Fissaggio corpo antenna alla staffa A(B3) 6

| Fase 4: Collegamento dell'antenna e del Set top box 6
A) Come preparare il cavo? 7
B) Come collegare il cavo all'antenna e al set top box ? 7

| Fase 5: Regolazione fine e fissaggio finale staffe 7

Individuazione ed eliminazione di problemi alla prima installazione

| Individuazione ed eliminazione di problemi alla prima installazione 8

Perdita di segnale / attenuazione da pioggia

| Perdita di segnale / attenuazione da pioggia 8

Che cosa è SELFSAT-H35D?

SELFSAT-H35D è un'antenna satellitare piatta con doppia polarizzazione lineare; riceve il segnale dai maggiori satelliti e sostituisce il disco della vecchia parabola. Piccola, discreta e facile da usare, si installa in pochi minuti e si può utilizzare come antenna portatile per le ricezioni satellitari. SELFSAT-H35D è utilizzabile per la ricezione di trasmissioni in chiaro e criptate (che richiedono un abbonamento con l'operatore); riceve inoltre i canali HD. Per l'utilizzo e l'installazione, leggere e seguire attentamente le istruzioni del manuale.

Usate piu di due televisioni a casa?

H35D2

H35D4

Guardare 2 canali e' possibile attraverso H35D2
Guardare anche 4 canali e' possibile attraverso H35D4

Sicurezza

- Prima di utilizzare questo prodotto, leggere attentamente il presente manuale e seguire esattamente le istruzioni di installazione, montaggio e orientamento.
- Vi preghiamo di seguire le seguenti istruzioni per evitare ogni problema tecnico.
- Qualsiasi campo magnetico vicino al SELFSAT-H35D può causare una cattiva ricezione del segnale o addirittura comprometterla del tutto.
- Non perforare l'involucro di plastica dell'antenna, che la sigilla contro l'umidità.
- Maneggiare l'antenna con cura: qualsiasi urto può danneggiarne i componenti elettronici.
- Non togliere l'involucro: qualsiasi tentativo di riparazione da parte di personale non qualificato può essere pericoloso e annullare la garanzia.
- Ostacoli come costruzioni, alberi ecc. possono bloccare la ricezione del segnale dal satellite.
- Non dipingere o aggiungere altre sostanze sull'antenna, poiché possono impedire la ricezione del segnale dal satellite.
- Il cavo tra l'antenna e il ricevitore satellitare non deve superare i 30 m, pena la diminuzione della qualità el segnale.
- L'utilizzo di un jack non isolato può determinare perdita del segnale.
- Una volta effettuata la regolazione, stringere bene tutte le viti dell'antenna.
- Questo prodotto contiene un solo LNB universale ed è formalmente vietato aggiungere, cambiare o modificare l'LNB.
- Per maggiori dettagli sui punti precedenti o per qualsiasi altra informazione contattare il rivenditore o direttamente il servizio clienti.

ATTENZIONE

Le antenne non correttamente installate o installate in una struttura inadeguata sono facilmente danneggiabili dal vento. Tali danni possono essere molto seri o addirittura mortali. Il proprietario e l'installatore sono pienamente responsabili del fatto che l'installazione sia strutturalmente adeguata per sopportare tutti i carichi (peso, vento e gelo) e adeguatamente sigillata contro dispersioni. Il costruttore non si riterrà responsabile per qualsiasi tipo di danno causato dal sistema satellitare dovuto alle molteplici e variabili applicazioni.

CONTENUTO DELLA CONFEZIONE

N.	Simbolo	Nome parte	Immagine	Quantità
1	A1	Antenna		1
2	B1	Staffa angolare		1
3	B2	Supporto principale		1
4	B3	Staffa fissaggio A		1
5	B4	Staffa fissaggio B		2
6	B5	Chiave		1
7	C1	Bussola		1
8	S1	Vite M6x18 SEMS2		3
9	S2	Vite M6x50 SEMS2		1
10	S3	Dado testa quadra M6x50		3
11	S4	Dado testa quadra M6x75		4
12	N1	Dado M6		7

Installarla

Seguendo passo a passo le istruzioni è possibile installare con facilità SELFSAT-H35D da soli o con l'aiuto di un antennista professionista.

Prima di installare l'antenna verificare che la scatola di SELFSAT-H35D contenga tutti gli elementi citati nel "Contenuto della confezione". Nell'eventualità di parti mancanti, contattare il rivenditore.

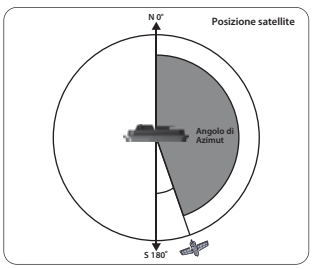
Fase 1: Dove installarla?

Per ricevere il segnale dal satellite, SELFSAT-H35D va installata in uno spazio aperto (fuori casa/appartamento) nella direzione del satellite, verso l'equatore (il sud). Sarà necessaria la bussola per orientare esattamente SELFSAT-H35D nella giusta direzione.

Nota
far riferimento alla tavola degli angoli di Azimut nell'ultima pagina del presente manuale.

< Bussola>

< Angolo di Azimut >



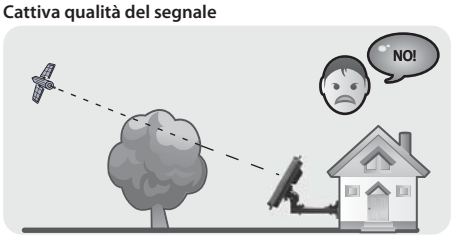
Nota
per garantire un'accurata lettura della bussola, la preghiamo di tenersi lontani da grandi oggetti di metallo, nello specifico cavi elettrici, ed effettuare letture a più riprese.

Verificare che non vi siano ostacoli davanti a SELFSAT-H35D che possano diminuire la qualità della ricezione del segnale quali: costruzioni, alberi o altro (ricordarsi che gli alberi normalmente crescono e possono bloccare il segnale).

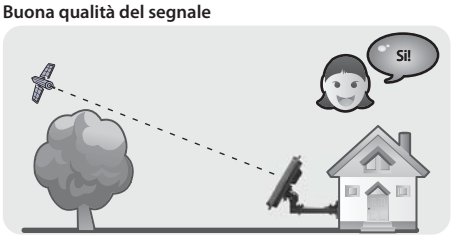
Per poter fissare e installare facilmente l'antenna si deve scegliere un'ubicazione accessibile e priva di potenziali pericoli per l'installazione.

È necessario valutare a come far passare il cavo in modo discreto da SELFSAT-H35D fino al Set top Box (decodificatore). L'antenna non va messa troppo distante dal ricevitore satellitare; un cavo lungo più di 30 m. diminuisce la qualità del segnale.

Cattiva qualità del segnale



Buona qualità del segnale

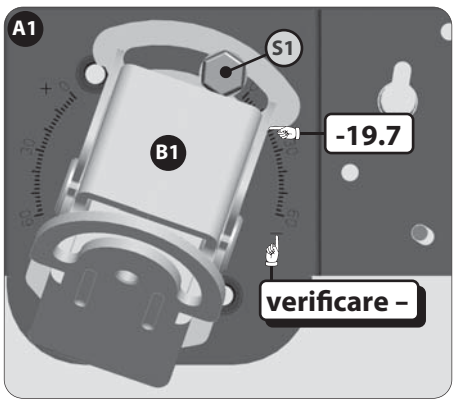


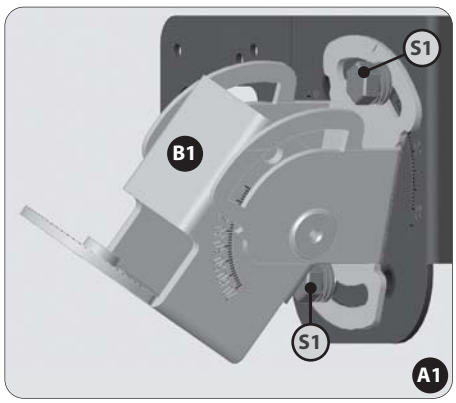
Fase 2: informazioni preliminari

Per installare l'antenna, è necessario trovare skew (Sk), elevazione (El) e angolo di azimut (Az). Vedi i parametri contenuti nella tabella in appendice alla fine del manuale.
Se non trovi la tua località, si prega di fare riferimento alle informazioni della città più vicina alla vostra posizione. Questo manuale vi mostra l'esempio di installazione per ricevere via satellite Astra1 nella regione di Brest in Francia. I parametri di puntamento per la regione di Brest sono: Sk: -19,7, El: 30, Az: 149,6

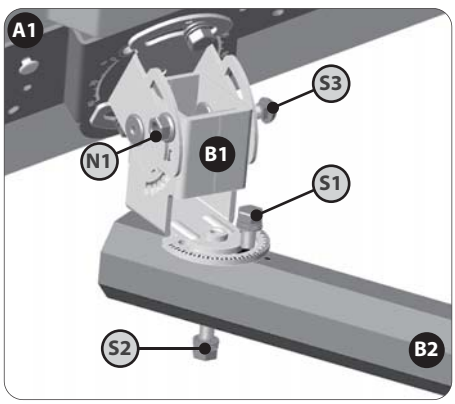
Fase 3: Assemblaggio

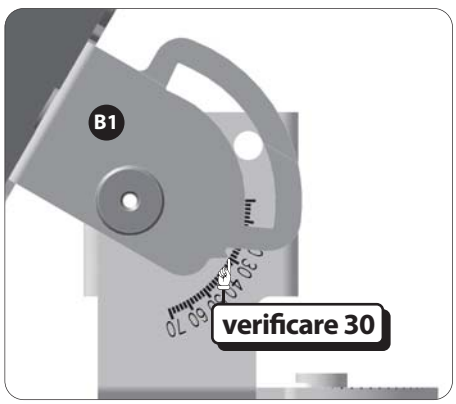
1) **Regolare lo Skew (staffa B1 sul corpo dell 'antenna A1)**
   Regolare l'angolo di inclinazione a -19,7 e fissare i dadi.





2) **Regolare l'Elevazione (unire il corpo antenna con il supporto principale)**
   Per una regolazione fine dell'elevazione e dell'angolo di azimuth si prega di non fissare subito dado e bullone strettamente.





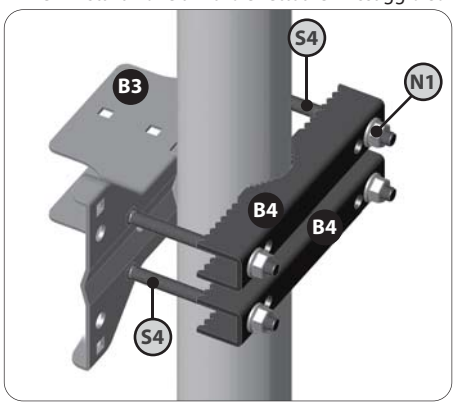
3) **Installazione di una staffa fissa**

È necessario installare la staffa di ancoraggio A(B3 nella figura) in base al tipo di installazione (montaggio su palo o balcone, montaggio a parete).

Assicurarsi che la direzione sia verso il satellite.

Al fine di sostenere l'antenna, il dado (N1), dovrebbe essere stretto quanto possibile.

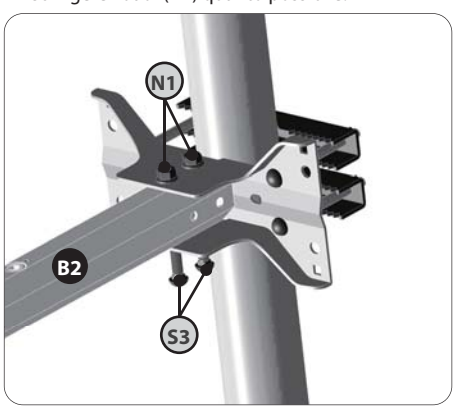
Per l'installazione a muro effettuare il fissaggio con appositi tasselli (non forniti)

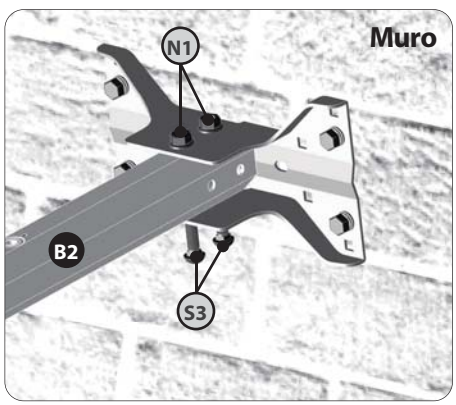


4) **Fissaggio corpo antenna alla staffa A(B3)**

Fissare la staffa principale dell'antenna B2 alla staffa B3.

Stringere i dadi (N1) quanto possibile.



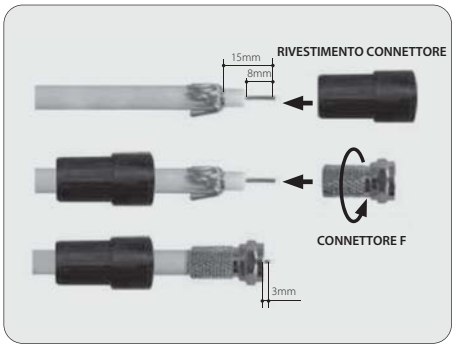


Fase 4: Collegamento dell'antenna e del Set top box

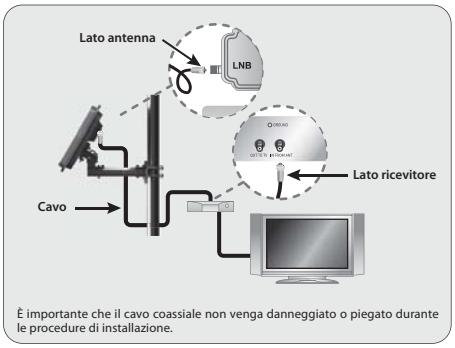
Dopo aver installato l'antenna in uno spazio aperto e averla montata nella maniera prescelta, procedere ad effettuare tutti i collegamenti.. Per poter vedere i propri programmi preferiti, collegare l'antenna satellitare al ricevitore tramite cavo. Il cavo tra l'antenna e il ricevitore satellitare non deve superare i 30m, pena la diminuzione della qualità del segnale.

Un cavo troppo lungo o di cattiva qualità e jack non isolati possono comportare una perdita del livello del segnale; è preferibile utilizzare un cavo coassiale RG6 (cavo HF 17VATC o 19VATC) per ridurre al minimo la perdita di segnale..

A) Come preparare il cavo?



B) Come collegare il cavo all'antenna e al set top box ?

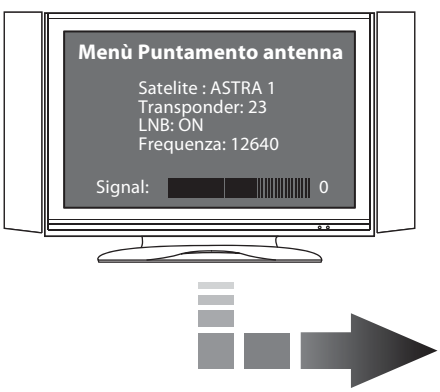


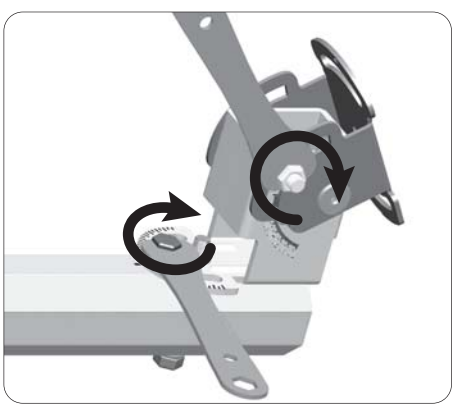
È importante che il cavo coassiale non venga danneggiato o piegato durante le procedure di installazione.

Fase 5: Regolazione fine e fissaggio finale staffe

Una volta completata la messa a punto per la ricezione del segnale, si prega di avvitare bulloni e dadi.

E' possibile verificare il livello e la qualità del segnale tramite il decoder direttamente sullo schermo del televisore.
Il livello indica la potenza del segnale e il colore indica la qualità di ricezione del segnale del satellite scelto.
Durante la fase di regolazione dell'antenna (azimuth, elevazione) tali livelli variano in base ai movimenti dell'antenna.





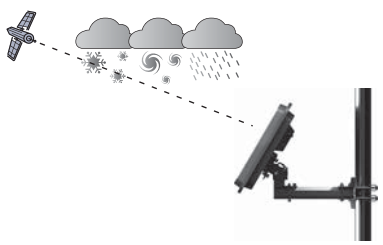
Individuazione ed eliminazione di problemi alla prima installazione

Se il segnale non viene trovato e i manuali utente antenna e utente ricevitore sono stati seguiti adeguatamente, effettuare i seguenti controlli :

- Verificare che tutte le connessioni dei cavi siano corrette e che ogni connessione sia correttamente alloggiata/fissata.
- Ispezionare l'interno di ogni connettore di cavo per spolverarlo o cotrollare che non vi siano possibili corti circuiti tra l'interno del connettore e la copertura.
- Verificare angoli di Azimut, Elevazione e Inclinazione in base al proprio CAP.
- Verificare che i puntatori di Inclinazione e Elevazione siano correttamente allineati alle scale. Non utilizzare rondelle o dadi come riferimento.
- Verificare che la regolazione di Inclinazione non sia cambiata rispetto all'impostazione raccomandata per la posizione dell'antenna.
- Il cavo RG6 con conduttore centrale solido in rame è caldamente raccomandato perché ha una più bassa caduta di tensione DC rispetto ai cavi RG 6 con conduttore in acciaio rivestito in rame.
- Il cavo RG 59 standard causa eccessiva caduta di tensione DC e perdita di segnale; non può essere utilizzato per il segnale satellitare. Va utilizzato un cavo coassiale RG 6.
- Alcuni componenti di ricambio e accessori esistenti in commercio potrebbero avere caratteristiche diverse da quelle pubblicizzate. Potrebbero non funzionare o causare ulteriori cadute di tensione e attenuazioni dell'ampiezza del segnale.
- Eliminare tali componenti, limitarsi alle connessioni base specificate nel manuale e riverificare.
- Rimuovere i componenti specifici preesistenti della TV, come splitter ecc.
- Lasciare solo i collegamenti base descritti in questa guida. Tali componenti possono non funzionare con il segnale satellitare e possono essere invisibili poiché a muro. In caso di dubbio, far passare il cavo RG 6 direttamente al ricevitore.
- Verificare l'assenza di ostacoli (alberi, costruzioni, finestre, angoli o sporgenze del tetto, il proprio corpo o mani) – il segnale non oltrepassa fogliame, rami, vetro ecc.
- Verificare che il cavo satellitare sia connesso alla presa "Sat-In" e non alla presa "Antenna-In". La presa "Antenna In"sul retro del ricevitore è per l'ingresso antenna terrestre o TV via cavo.
- Se tutto è stato eseguito correttamente, ma il segnale è ancora assente, cambiare leggermente la regolazione di elevazione dell'antenna (± 2°, poi ± 4° rispetto a quanto richiesto per l'impostazione) e ripetere la procedura.
- Verificare che la scheda di accesso del ricevitore sia completamente inserita nell'apposito slot e correttamente orientata.

Perdita di segnale / attenuazione da pioggia

- Il segnale satellitare può essere temporaneamente assente a causa di pioggia particolarmente violenta. Un ottimale allineamento dell'antenna, associato a un cavo il più corto possibile, minimizza l'attenuazione da pioggia.
- Verificare che l'antenna sia montata stabilmente per evitare che possa perdere l'allineamento in caso di vento forte.
- Un'importante caduta di neve che si accumula sull'antenna può ridurre la potenza del segnale; va eliminata al più presto.
- La crescita di fogliame sulla linea di veduta dell'antenna può generare una graduale perdita dell'immagine.



Inhalt

Um was handelt es sich bei der SEFLSAT-H35D?

| Um was handelt es sich bei der SEFLSAT-H35D 2

Sicherheitsanweisungen

| Sicherheitsanweisungen 2

Lieferumfang

| Lieferumfang 3

So wird sie installiert?

| So wird sie installiert? 4

| Schritt 1 : Wo kann man sie installieren? 4

| Schritt 2 : Informationen überprüfen 5

| Schritt 3 : Teile zusammenfügen 5
- 1) Fixieren Sie die Schrägstellung (Gelenk Winkel Verbindung und Antenne) 5
- 2) Höhe fixieren (Gelenk Antenne und Hauptstütze) 5
- 3) Montage der Wand- bzw. Masthalterung 6
- 4) Montage der Hauptstütze 6

| Schritt 4 : Verbinden der Antenne mit dem Digitalempfänger 6
- A) Wie präpariert man das Kabel? 7
- B) So verbindet man Kabel mit Antenne und Digitalempfänger 7

| Schritt 5 : Feinabstimmung und Fixierung der Verbindung 7

Störungsbehebungs-Prüfliste für die Erstinstallation

| Störungsbehebungs-Prüfliste für die Erstinstallation 8

Verlust des Signals / Regen-Verblassung

| Verlust des Signals / Regen-Verblassung 8

Um was handelt es sich bei der SEFLSAT-H35D?

Die SEFLSAT-H35D ist eine Satellitenantenne vom Typ Hornanordnung mit doppelter Linear- Polarisation, die Signale von großen Satelliten empfangen kann und eine normale Parabol-Antenne, wie es sie früher gab, ersetzen kann.
Da sie klein, unauffällig und bedienungsfreundlich ist, kann sie innerhalb von wenigen Minuten aufgestellt werden und als tragbare Antenne für sämtliche Arten des Satellitenempfangs verwendet werden.
Die SEFLSAT-H35D kann sowohl für den Empfang frei zugänglicher als auch den verschlüsselter Kanäle verwendet werden (wobei in diesem Fall ein Abonnement bei einem Betreiber benötigt wird); sie kann auch alle Kanäle mit hochauflösenden und deshalb hervorragenden Fernsehbildern empfangen.
Um Näheres über Gebrauch und Installation zu erfahren, lesen Sie bitte die nun folgenden Anweisungen und Installationshinweise sorgfältig durch.

Nutzen Sie zuhause mehr als einen Fernseher?

H35D2

H35D4

Nehmen Sie einen SELFSAT mit mehrfachem Ausgang

Es ist möglich 2 Kanäle gleichzeitig mit der SELFSAT-H35D2 zu schauen
Wollen Sie 4 Kanäle gleichzeitig geniessen? Dies ist möglich mit der SELFSAT-H35D4

Sicherheitsanweisungen

- Vor dem Gebrauch dieses Produkts lesen Sie bitte diese Bedienungsanleitung sorgfältig durch und befolgen sie Installations-, Montage- und Ausrichtungsanweisungen genau.
- Alle Anweisungen sollten befolgt werden, um technische Probleme zu vermeiden.
- Jegliches elektrische oder magnetische Feld, das sich in der Nähe der SEFLSAT-H35D befindet, kann zu schlechtem Empfang führen oder sogar dafür verantwortlich sein, dass das Gerät vollständig vom Signal getrennt wird.
- Bohren Sie den Kunststoffdeckel der Antenne, der diese vor Feuchtigkeit schützt, nicht an.
- Gehen Sie vorsichtig mit der Antenne um, da jeglicher Stoß die Geräteelektronik beschädigt.
- Öffnen Sie den Deckel nicht, jeglicher Reparatur-Versuch einer nicht entsprechend ausgebildeten Person kann gefährlich sein und die Garantieansprüche erlöschen lassen.
- Jegliches Hindernis (Gebäude, Bäume, etc.) blockiert den Empfang des Signals vom Satelliten an die Antenne.
- Malen Sie nichts auf den Antennendeckel oder fügen diesem irgendeine Substanz zu, da dies den Empfang des Signals vom Satelliten blockiert.
- Das Kabel zwischen der Antenne und dem Satellitenempfänger darf nicht länger als 30 m sein, da dies zur Qualitätsminderung des zu empfangenden Signals führt.
- Vergessen Sie nicht, die Antenne und die Halterung an die Kreuzpolarität anzupassen (bei schiefem Winkel sehen Sie bitte in Schritt 5 nach).
- Ziehen Sie alle Antennenschrauben an, wenn Sie sämtliche Anpassungen vorgenommen haben.
  Dieses Produkt enthält einen Universal-LNB, es ist untersagt, einen LNB hinzuzufügen, ihn auszuwechseln oder zu verändern.
- Um Näheres über die oben genannten Punkte oder sonstige weitere Informationen zu erfahren, wenden Sie sich bitte an Ihren Händler oder den Kundendienst.

WARNUNG

Nicht korrekt oder an eine unpassende Struktur angebrachte Antennen sind leicht durch den Wind zu beschädigen. Diese Schäden können sehr ernsthafter Natur und sogar lebensgefährlich sein. Der Eigentümer und Antennen-Installateur übernimmt die volle Verantwortung dafür, dass die Installation strukturell in Ordnung ist, damit sie sämtliche Lasten tragen kann (Gewicht, Wind und Eis) und gegen lecke Stellen vorschriftsmäßig abgedichtet ist. Der Hersteller übernimmt aufgrund der vielen unbekannt variierenden Anwendungen keine Haftung für Schäden, die durch ein Satellitensystem verursacht worden sind.

Lieferumfang

Nr.	Symbol	Teilename	Abbildung	Abbildung
1	A1	Antennen-Hauptteil		1
2	B1	Winkelhalterung		1
3	B2	Hauptstütze		1
4	B3	Fixierungshalterung A		1
5	B4	Fixierungshalterung B		2
6	B5	Schraubenschlüssel		1
7	C1	Kompass		1
8	S1	Sechskantschraube M6x18 SEMS2		3
9	S2	Sechskantschraube M6X50 SEMS2		1
10	S3	Halbrund-Vierkant-Halsschraube M6x30		3
11	S4	Halbrund-Vierkant-Halsschraube M6x50		4
12	N1	Mutter M6		7

So wird sie installiert?

Indem man die Anweisungen Schritt für Schritt befolgt, ist es einfach, die SEFLSAT-H35D selbst oder mit Hilfe eines professionellen Antenneninstallateurs zu installieren.

Vor dem Installieren Ihrer Antenne prüfen Sie bitte, ob alle unter "Lieferumfang" genannten Teile in der Verpackung sind. Sollten Teile fehlen, kontaktieren Sie bitte Ihren Händler.

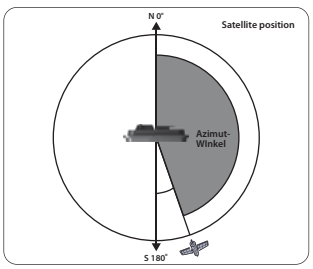
Schritt 1 : Wo kann man sie installieren?

Um ein Signal vom Satelliten zu erhalten, sollte die SEFLSAT-H35D an einer prozessparallelen Stelle (außerhalb des Hauses oder der Wohnung) in Richtung des Satelliten zum Äquator hin installiert werden. Hierzu benötigen Sie einen Kompass, um die SEFLSAT-H35D genau auf den Satelliten hin auszurichten.

Anmerkung
Als Bezug nehmen Sie bitte die Tabelle der Azimut-Winkel, die auf den letzten Seiten dieser Bedienungsanleitung aufgeführt sind.

< Kompass >

< Azimut-WInkel >



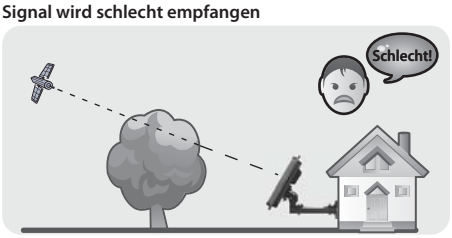
Anmerkung
Zur Sicherstellung einer genauen Ablesung am Kompass, führen Sie die Messungen ausserhalb der Wohnung durch und achten Sie bei der Ablesung bitte darauf, dass Sie sich nicht in der Nähe von großen Metallobjekten befinden, insbesondere Elektrokabeln. Führen Sie außerdem die Ablesung mehrfach durch.

Stellen Sie sicher, dass sich keine Hindernisse, wie etwa Gebäude oder Bäume, vor der SEFLSAT-H35D befinden, die die Qualität des Signalempfangs beeinträchtigen (denken Sie daran, dass Bäume wachsen und das Signal blockieren können).

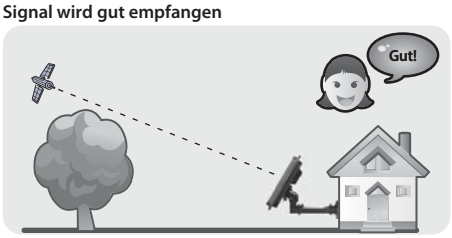
Um Ihre Antenne einfach zu befestigen und zu installieren, können Sie einen leicht zugänglichen Ort ohne irgendwelche potenziellen Gefahren für die Installation auswählen.

Denken Sie daran, wie Sie mit dem Sat-Kabel vorbei ungehindert von der SELFSAT-H35D zu Ihrem Digitalempfänger gelangen können. Die Antenne sollte sich nicht zu weit entfernt von Ihrem Satellitenempfänger befinden; ein mehr als 30 Meter langes Kabel kann zu einer Verschlechterung der Bildqualität führen.

Signal wird schlecht empfangen



Signal wird gut empfangen

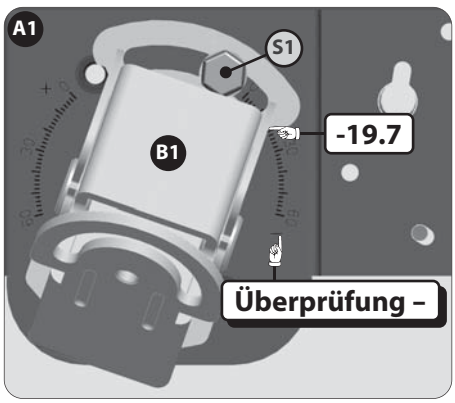


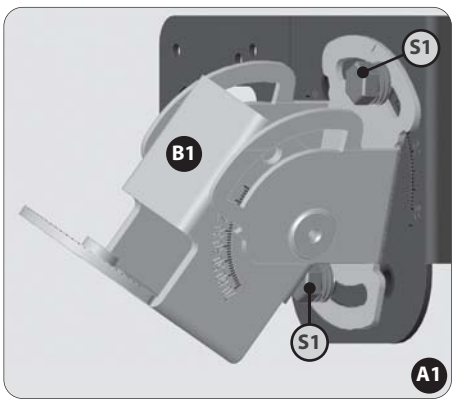
Schritt 2 : Informationen überprüfen

Um die Antenne zu installieren müssen Sie die richtige Schrägstellung (Sky), Höhe (Elevation) und den Azimuth-Winkel finden, wie in den letzten Seiten der Bedienungsanleitung angegeben. Wenn Sie Ihren Standort in der Tabelle nicht finden, nehmen Sie bitte den der Ihnen am nächsten ist. Als Beispiel wird die Installation für den Astra1 Satelliten in Wien gezeigt.
Die Winkelinformation ist wie folgt : Schrägstellung : -19.7 Höhe : 30 , Azimuth : 149.6

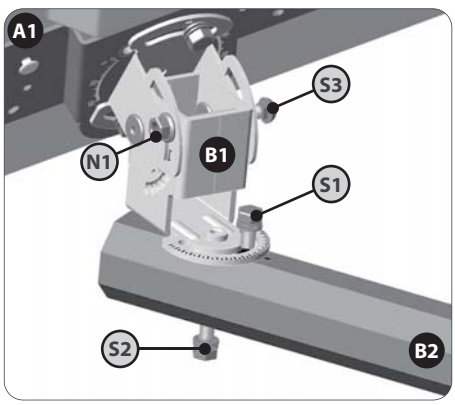
Schritt 3 : Teile zusammenfügen

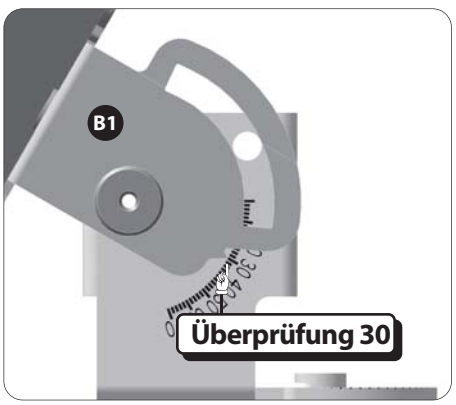
1) **Fixieren Sie die Schrägstellung (Gelenk Winkel Verbindung und Antenne)**
Gelenk Winkel Verbindung und Antenne auf Schrägstellung -19.7 stellen.



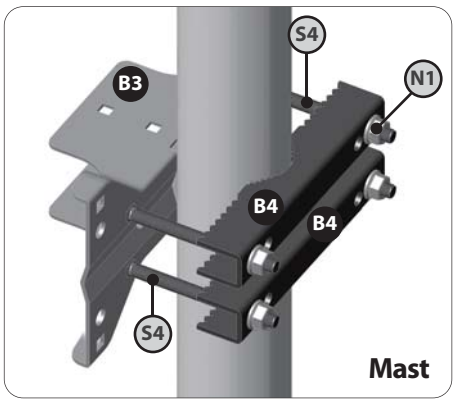


2) **Höhe fixieren (Gelenk Antenne und Hauptstütze)**
Gelenk Winkel Verbindung und Hauptstütze. Für die empfindliche Abstimmung und für den Azimuth-Winkel, fixieren Sie den .Bolzen und die Mutter nicht zu fest.

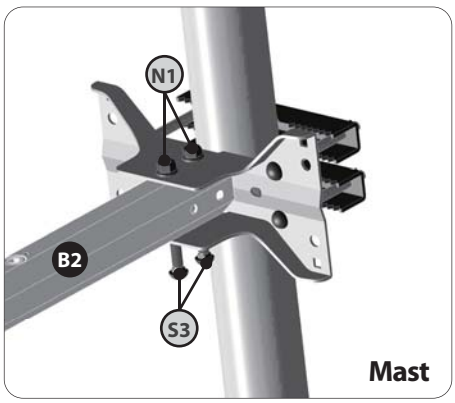


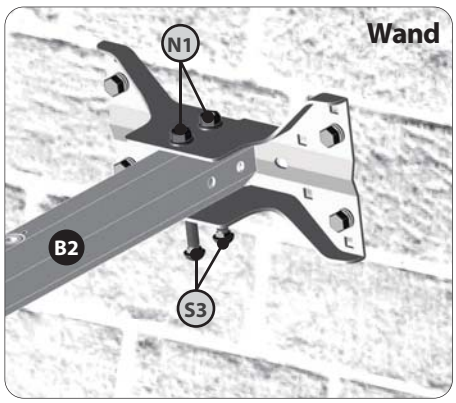


3) **Montage der Wand- bzw. Masthalterung**
Sie müssen die Fixier-Verbindung A(B3) unter Berücksichtigung des Installationsplatzes (Mastmontage, Wandmontage) wie nachstehend abgebildet fixieren. Versichern Sie sich, daß die fertig montierte Halterung in Richtung des Satelliten zeigt. Als Unterstützung für die Antenne, ziehen Sie die Mutter (N1) fest an. Für die Wandmontage kaufen Sie bitte die für die Wandmontage notwendigen Schrauben & Dübel.



4) **Montage der Hauptstütze (B2)**
Befestigen Sie die Hauptstütze (B2) wie abgebildet mit den 2 Schrauben (S3) und Muttern am Fixierhalter (B3). Ziehen Sie die Muttern (N1) fest an.



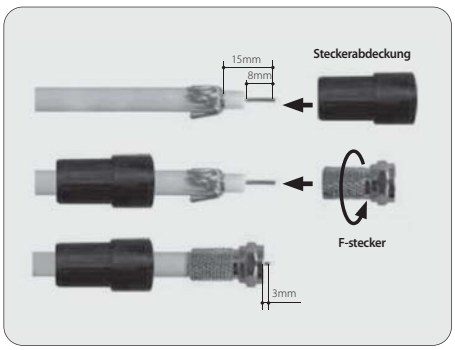


Schritt 4 : Verbinden der Antenne mit dem Digitalempfänger

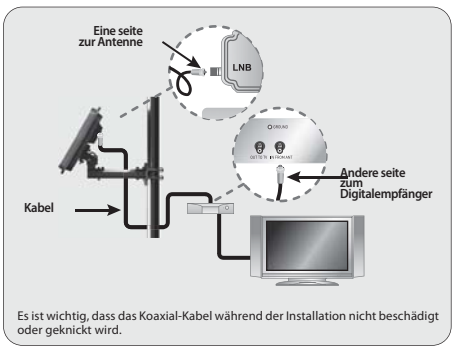
Sobald Sie die Antenne an einem prozessparallelen Ort und so installiert haben, wie Sie es wünschen, ist der nächste Schritt, alles miteinander zu verbinden.

Um Ihre Lieblings-Satellitenprogramme ansehen zu können, müssen Sie Ihre Satellitenantenne mittels eines Kabels mit einem Empfänger verbinden.
Das Kabel zwischen der Antenne und dem Satellitenempfänger sollte nicht länger als 30 Meter sein, da es den Signalempfang beeinträchtigt.
Der Gebrauch eines langen Kabels oder eines von schlechter Qualität und nicht-isolierter Buchsen kann zu einem Verlust des Signalpegels führen, verwenden Sie ein hochwertiges Sat-Kabel.

A) Wie präpariert man das Kabel?



B) So verbindet man Kabel mit Antenne und Digitalempfänger



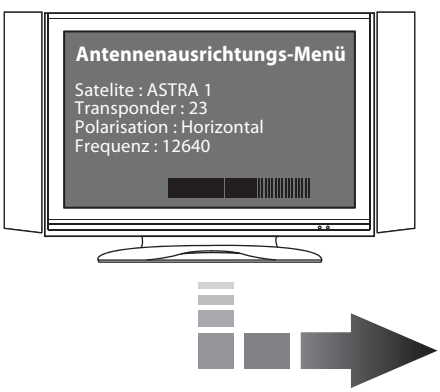
Es ist wichtig, dass das Koaxial-Kabel während der Installation nicht beschädigt oder geknickt wird.

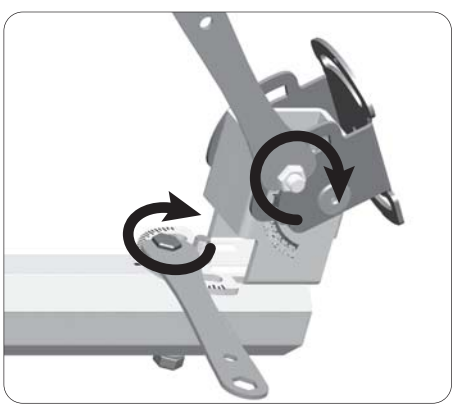
Schritt 5 : Feinabstimmung und Fixierung der Verbindung

Wenn die Feinabstimmung für den Signalempfang abgeschlossen ist, ziehen Sie den Bolzen und die Mutter fest.

Sobald Sie dies getan haben, entfernen Sie das Dämpfungskissen (platzieren Sie es an einem sicheren Ort, um es künftig transportieren zu können), stellen Sie sicher, dass alle Schrauben gut angezogen sind, um zu verhindern, dass die Antenne ihre Position verändert.

Die Signalstärke und Qualität ist am TV Bildschirm zu sehen und verändert sich bzw. die Farbe während der Einstellungen und Bewegungen der Antenne um die richtigen Winkel zu finden (Azimuth-, Höhenwinkel)
Der Level zeigt die Leistung des Signals und die Farbe ist die Signalempfangsqualität des ausgewählten Satelliten.





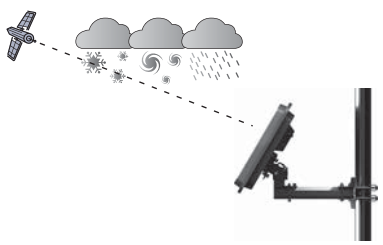
Störungsbehebungs-Prüfliste für die Erstinstallation

Wenn das Signal nicht gefunden wird, dann stellen Sie sicher, dass die Anweisungen in der Empfänger-Bedienungsanleitung und der Antennen-Bedienungsanleitung genau befolgt worden sind, dazu prüfen Sie bitte Folgendes :

- Stellen Sie sicher, dass sämtliche Kabelverbindungen intakt sind und jede Verbindung ordnungsgemäß sitzt/festgeschraubt ist.
- Untersuchen Sie das Innere jedes Kabelsteckers auf Schmutz oder einen möglichen Stecker-Gehäuseschluss/ Schirmschluss.
- Überprüfen Sie anhand der Tabelle den Azimuthwinkel, den Erhebungspunkt und die Neigungswinkel.
- Stellen Sie sicher, dass die Neigungs- und Erhebungsausrichter korrekt auf ihre Skalen ausgerichtet sind. Verwenden Sie keine Unterlegscheibe oder Schraube als Bezugspunkt.
- Stellen Sie sicher, dass die Neigungsausrichtung keine andere ist als die für den Ort der Antenne empfohlene Einstellung.
- Entfernen Sie bestehende, für das Fernsehgerät spezifische Bauteile, wie etwa Fernsehverteiler, etc.; reduzieren Sie die Installation auf die Grundverbindungen, auf die in dieser Bedienungsanleitung eingegangen wird.
- Stellen Sie sicher, dass es keine Hindernisse gibt (Bäume, Gebäude, Fenster, Ecken oder Überhänge Ihres Daches, Ihres Körpers, Ihrer Hände) – das Signal geht nicht durch Blätter, Äste, Glas etc. hindurch.
- Ein Antennen-Kabel mit festem Kupferkern-Leiter wird dringend empfohlen, weil es einen wesentlich geringeren Gleichstrom-Spannungsabfall aufweist verglichen mit einem Antennen-Kabel mit einem kupferbeschichteten Stahlkern-Leiter.
- Ein Standard RG 59-Kabel verursacht einen zu hohen Gleichstrom- und Signal-Abfall; es kann für eine Weitergabe des Satellitensignals nicht verwendet werden. Hierfür muss ein RG 6-Koaxial-Kabel verwendet werden.
- Einige Wartungs-/ Ersatz-, Standard-Zusatzbauteile entsprechen möglicherweise nicht der Funktion, wie sie beworben worden sind. Möglicherweise funktionieren sie nicht oder verursachen zusätzliche Gleichstrom-Ausfälle und Signalamplituden-Dämpfungen. Entfernen Sie derartige Bauteile, gehen Sie zurück zu den Grundverbindungen, auf die in dieser Bedienungsanleitung eingegangen wird und führen Sie erneute Überprüfungen durch.
- Stellen Sie sicher, dass das Satellitenkabel mit der „Sat Ein"-Buchse verbunden ist.
- Wenn alles korrekt durchgeführt wird, das Signal aber noch immer nicht gefunden wird, dann ändern Sie bitte die Erhebungsausrichtung der Antenne etwas (± 2°, dann ± 4° abweichend von der geforderten Einstellung) und wiederholen das Verfahren.
- Stellen Sie sicher, daß Ihr Sat-Empfänger auf ein frei empfangbares Sat-Programm geschaltet ist.

Verlust des Signals / Regen-Verblassung

- Das Satellitensignal kann vorübergehend aufgrund von ungewöhnlich starkem Regenfall verloren gehen. Eine optimal ausgerichtete Antenne sowie der am kürzesten mögliche Kabelverlauf minimieren die Gefahr einer solchen „Regen-Verblassung".
- Stellen Sie sicher, dass die Antenne sicher montiert ist, damit sie bei starkem Wind nicht ihre Ausrichtung verliert.
- Starke Schneeanhäufung auf der Antenne können zu einem schwächeren Satellitensignal führen; Schnee sollte so schnell wie möglich von der Antenne beseitigt werden.
- Wachsende Baumblätter in die Visierlinie der Antenne zum Satelliten hinein können zu graduellem Bildverlust führen.



Contenu

Qu'est-ce que SELFSAT-H35D?

| Qu'est-ce que SELFSAT-H35D? 2

Consignes de Sécurité

| Consignes de Sécurité 2

CONTENU DE LA BOITE

| CONTENU DE LA BOITE 3

Comment l'installer?

| Comment l'installer? 4

| Etape 1 : Où l'installer? 4

| Etape 2 : Pour Information 5

| Etape 3 : Comment Assembler? 5

1) Fixer l'inclinaison (joindre le bras de fixation carre a l'arriere de l'antenne) 5

2) Fixer l'angle d'élévation (entre l'antenne et le support de fixation) 5

3) Installation du Bras de Fixation A 6

4) L'arrière bras et les Bras de fixation A(B3) 6

| Etape 4 : Connexion de l'Antenne au Récepteur Satellite 6

A) Comment préparer le câble ? 7

B) Comment connecter le câble à l'Antenne et au Récepteur Satellite ? 7

| Etape 5 : Menu Pointage de l'Antenne 7

Liste de dépannage pour Installation Initiale

| Liste de dépannage pour Installation Initiale 8

Perte de Signal / « Affaiblissement dû à la pluie »

| Perte de Signal / « Affaiblissement dû à la pluie » 8

Qu'est-ce que SELFSAT-H35D?

SELFSAT-H35D est une Antenne Satellite à Double Polarisation Linéaire, elle peut capter le signal des satellites majeurs et remplace votre ancienne Parabole.
Petite, discrète et facile d'utilisation, elle peut être installé en quelques minutes et également être utilisée comme antenne portable pour toutes réceptions satellites.
SELFSAT-H35D peut être utilisé aussi bien pour la réception de chaînes en clair qu'en crypter (ces dernières exigeant la souscription d'un abonnement auprès d'un opérateur) ; Elle peut aussi recevoir toutes les chaînes Haute Définition avec une qualité d'image supérieure.
Pour l'utilisation et l'installation, veuillez lire attentivement les instructions et les modalités d'installation du matériel suivantes.

Avez-vous plus d'une TV chez vous?

H35D2

H35D4

Alors essayez SELFSAT avec sa sortie LNB multiple.

Regarder 2 chaines est maintenant possible grace a la H35D2
Il est meme possible de profiter de 4 chaines grace a la H35D4

Consignes de Sécurité

- Avant d'utiliser ce produit, veuillez lire attentivement ce manuel et suivre à la lettre toutes les instructions d'installation, de montage et d'orientation.
- Les instructions doivent être respectées afin d'éviter tout problème technique.
- Tout champ électrique ou magnétique situé près du SELFSAT-H35D peut entraîner une mauvaise réception voire même couper complètement le signal.
- Ne percez pas la protection en plastique de l'antenne qui la rend étanche et la protège de l'humidité.
- Manipulez l'antenne avec précaution car tout choc risque d'endommager l'électronique.
- N'ouvrez pas le cache de protection, toute tentative de réparation par une personne non qualifiée peut être dangereuse et entraîner l'annulation de la garantie.
- Tout obstacle (bâtiments, arbres, etc…) bloquera la réception du signal provenant du satellite vers l'antenne.
- Ne peignez pas et n'ajoutez aucune substance sur le cache de protection de l'antenne, cela bloquera la réception du signal provenant du satellite.
- Le câble reliant l'antenne au récepteur Satellite ne devrait pas excéder 30m car cela diminuerait la qualité du signal.
- L'utilisation de prise non isolée entraînera une perte du niveau de signal.
- Serrez toutes les vis de l'antenne lorsque vous avez terminé les réglages.
- Ce produit contient un Convertisseur de Fréquences Descendant universel (LNB), il est interdit d'en ajouter un autre, de le changer ou de le modifier.
- Pour obtenir des renseignements plus précis quant aux indications ci-dessus ou pour toute information, veuillez contacter votre détaillant ou le service après-vente.

AVERTISSEMENT

Les antennes installées de façon incorrecte ou sur une structure inadéquate sont fortement susceptibles d'entraîner des dommages. Ces dommage peuvent être très importants voire mortels. Le propriétaire et l'installateur assument l'entière responsabilité de l'installation sensée supporter toutes les charges (poids, vent et glace) et de l'étanchéité aux fuites. En raison de nombreuses demandes dont les tenants sont inconnus, le fabricant n'acceptera pas que sa responsabilité soit engagée pour tout dommage causé par un système satellite.

CONTENU DE LA BOITE

No	Symbole	Nom de la Piece	Image	Quantite
1	A1	Corps de l'Antenne		1
2	B1	Equerre de Support		1
3	B2	Support Principal		1
4	B3	Support de Fixation A		1
5	B4	Support de Fixation B		2
6	B5	Clé à Boulon		1
7	C1	Boussole		1
8	S1	Ancrage Hexagonal M6x18 SEMS2		3
9	S2	Ancrage Hexagonal M6x50 SEMS2		1
10	S3	Vis a Tete Bombee a Collet Carre M6x50		3
11	S4	Vis a Tete Bombee a Collet Carre M6x75		4
12	N1	Ecrou à Collet carré M6		7

Comment l'installer?

En suivant les instructions pas à pas, vous pouvez installer facilement SELFSAT-H35D vous-même ou faire appel à un installateur d'antenne professionnel.

Avant d'installer votre antenne, assurez-vous que la boîte SELFSAT-H35D contient toutes les pièces listées ci-dessus dans la rubrique « Contenu de la boîte ». En cas de pièce manquante, veuillez contacter votre distributeur.

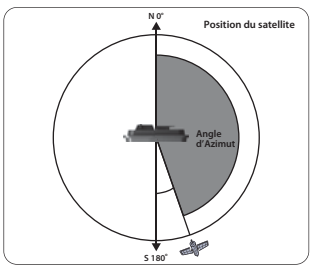
Etape 1 : Où l'installer?

Afin de recevoir un signal provenant du Satellite, SELFSAT-H35D doit être installé dans un espace à ciel ouvert (à l'extérieur de la maison ou de l'appartement), en direction du satellite vers le sud. Vous aurez besoin d'une boussole afin d'orienter avec exactitude SELFSAT-H35D vers le satellite.

A noter
Veuillez vous référer à la table des angles d'Azimut que vous trouverez dans les dernières pages de ce manuel.

< Boussole >

< Angle d'Azimut >



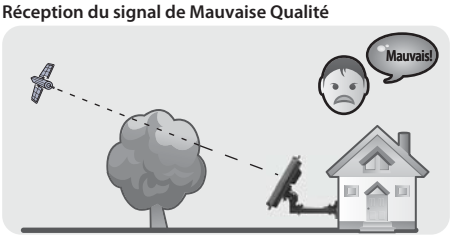
A noter
Afin d'assurer une lecture précise de la boussole,restez éloignés de grands objets métalliques, plus particulièrement des câbles électriques, et effectuez de nombreuses lectures.

Assurez-vous qu'il n'y ait aucun obstacle susceptible de diminuer la qualité de réception du signal devant SELFSAT-H35D, tels que des bâtiments ou des arbres (gardez cependant à l'esprit que les arbres vont pousser et qu'ils pourraient alors bloquer le signal).

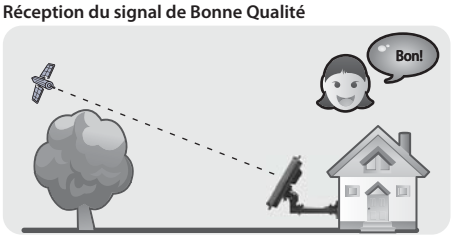
Afin d'être en mesure de fixer et d'installer facilement votre antenne, choisissez un endroit aisément accessible, sans danger potentiel pour l'installation.

Réfléchissez à la façon dont vous pourriez passer votre câble de la SELFSAT-H35D jusqu'à votre décodeur discrètement. L'antenne ne doit pas être trop éloignée de votre récepteur satellite ; un câble de plus de 30 mètres pourrait diminuer la qualité du signal.

Réception du signal de Mauvaise Qualité



Réception du signal de Bonne Qualité

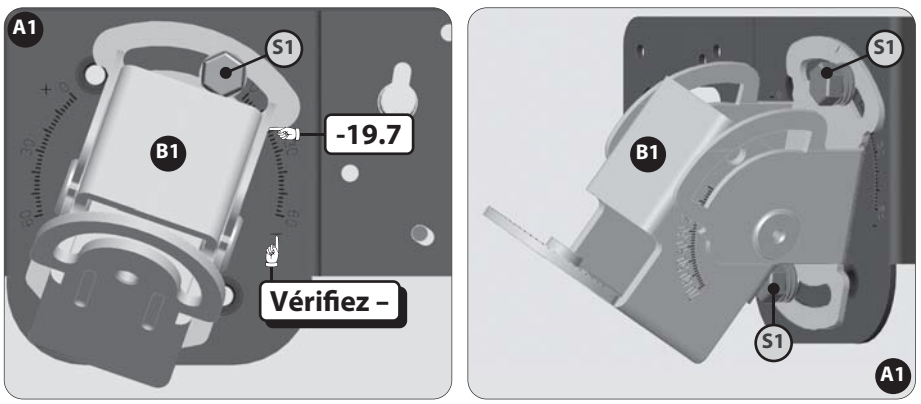


Etape 2 : Pour Information

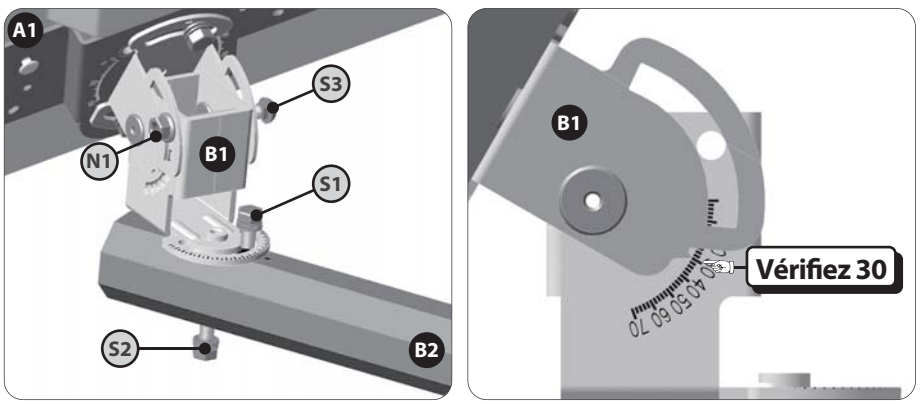
Afin d'installer correctement votre antenne, vous devez trouvez les angles d'inclinaison, azimut et élévation en se référant au tableau à la fin du manuel. Si vous ne trouvez pas dans la liste votre ville exacte, merci de choisir la ville la plus proche qui est citée dans le tableau. Nous allons vous donner un exemple d'installation pour recevoir le Satellite ASTRA1 dans la région de Brest en France, les angles fournis selon le tableau sont, inclinaison : -19,7°, Elévation : 30° et Azimut : 149,6° ;

Etape 3 : Comment Assembler?

1) **Fixer l'inclinaison (joindre le bras de fixation carre a l'arriere de l'antenne)**
   Visser avec la vis S3 le bras à l'antenne selon le schéma ci-dessous, tout en respectant bien l'angle d'inclinaison de votre ville (selon le tableau à la fin du manuel), dans notre example c'est -19,7°.

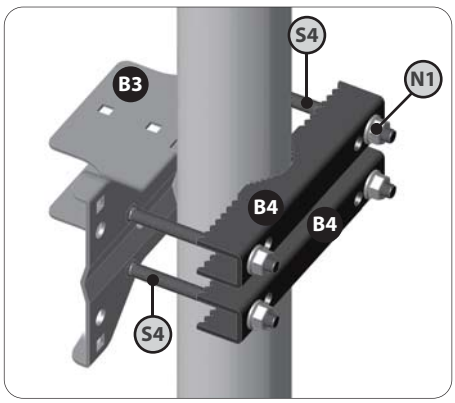


2) **Fixer l'angle d'élévation (entre l'antenne et le support de fixation)**
   Soulever ou baisser délicatement l'antenne afin d'atteindre l'angle d'élévation voulu selon le schéma ci-dessous, ne pas fixer à ce stade encore avec la vis et l'écrou.



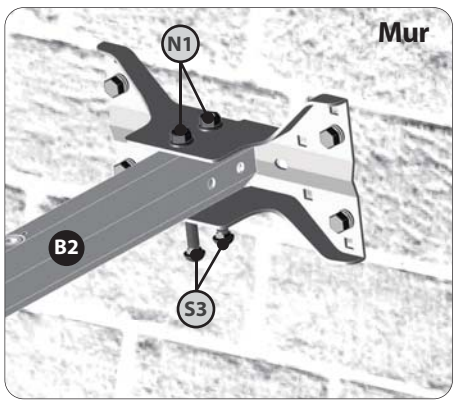
3) **Installation du Bras de Fixation A**

Selon l'emplacement de l'antenne et le type d'installation vous devez posez le bras de fixation A(B3 sur la figure) soit en type rambarde de balcon ou en accroche murale. Soyez sûr que vous êtes dans le bonne direction vers le satellite et qu'il n'y ait aucun obstacle. Afin de supporter le poids de l'antenne il va falloir bien visser les écrous (N1). Pour l'accroche murale des vis spéciaux seront nécessaires selon votre type de mur, merci de les acheter séparément.



4) **L'arrière bras et les Bras de fixation A(B3)**

Monter l'ensemble selon le schéma ci-joint, afin de pouvoir tenir correctement l'antenne, il va falloir bien visser les écrous (N1) selon le shcéma.

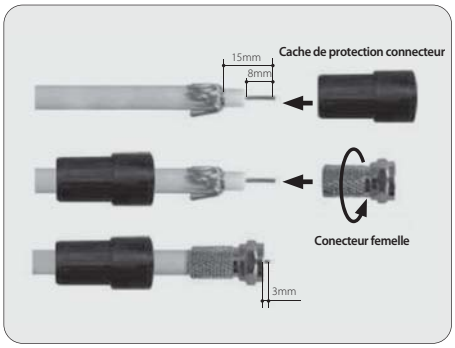


Etape 4 : Connexion de l'Antenne au Récepteur Satellite

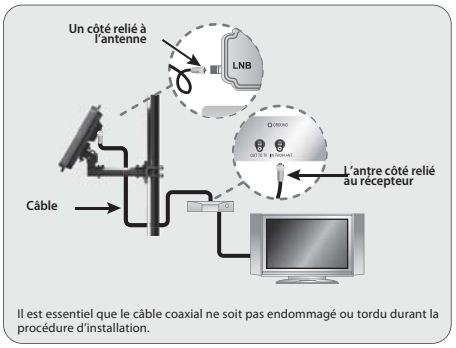
Après avoir installé l'antenne dans un espace à ciel ouvert et l'avoir monté de la façon dont vous le souhaitiez, l'étape suivante consiste à connecter l'ensemble. Afin de pouvoir regarder vos programmes satellites préférés, vous devez connecter votre antenne satellite à un récepteur par un câble. Le câble reliant l'antenne au récepteur Satellite ne doit pas excéder 30m car cela diminuerait la qualité du signal.

L'utilisation d'un câble long ou de mauvaise qualité et de prise non isolée peut entraîner une perte du niveau de signal, il serait donc préférable d'utiliser un câble coaxial RG6 (câble HF 17 VATG ou 19 VATG) afin de minimiser la perte de signal.

A) Comment préparer le câble ?



B) Comment connecter le câble à l'Antenne et au Récepteur Satellite ?



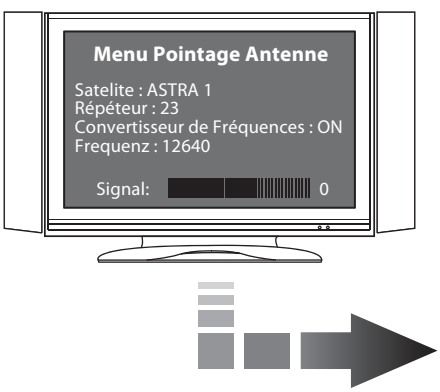
Il est essentiel que le câble coaxial ne soit pas endommagé ou tordu durant la procédure d'installation.

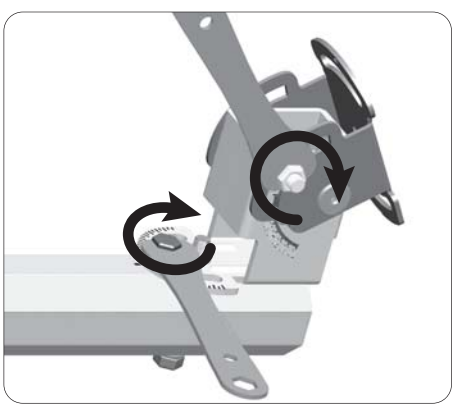
FRANCE

Etape 5 : Menu Pointage de l'Antenne

Lorsque tout est connecté, allumez la TV et le récepteur Satellite. Sélectionnez le Menu Pointage de l'Antenne sur votre décodeur.
Cette image montre le niveau de signal et l'écran qui apparaîtra sur votre TV.
N'oubliez pas de mettre le Convertisseur de Fréquence Descendant sur ON.
Vous aurez besoin que quelqu'un reste devant la TV pour vous indiquer quand le signal sera « bon » tandis que vous serez à l'extérieur pour essayer de régler l'antenne le mieux possible.

Le niveau et la qualité du signal sont indiqués sur l'écran de TV ; ils fluctueront et changeront de couleur en fonction du réglage et du mouvement de l'antenne pendant que vous serez en train de pointer et de constater (azimut, angle d'élévation et angle de déflexion).
Le niveau indique la puissance du signal et la couleur correspond à la qualité de réception du signal émanant du satellite choisi.





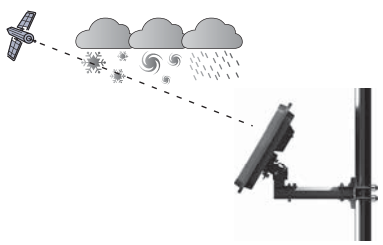
Liste de dépannage pour Installation Initiale

Si aucun signal n'est perçu, assurez-vous que les manuels d'utilisation du récepteur et de l'antenne ont été suivis à la lettre. Vérifiez ce qui suit :

- Assurez-vous que toutes les connections de câble sont correctes et que chaque connection est correctement placée et resserée.
- Vérifiez que l'interieur de chaque connecteur de câble est propre.
- Vérifiez l'Angle d'Azimut, d'Elévation et d'Inclinaision correspondant à votre situation géographique par le biais du code de zone.
- Assurez-vous que le réglage d'Inclinaison n'est pas différent de celui recommandé en fonction de l'endroit où est fixée l'antenne.
- Assurez-vous que le réglage d'Inclinaison n'est pas différent de celui recommandé en fonction de l'endroit où est fixée l'antenne.
- Un câble RG6 doté d'un solide conducteur en central en cuivre est fortement recommendé car il entraine une chute de tension continue plus faible que le câble RG6 cuivré, à conducteur central en acier.
- Un câble standard RG59 etraine trop de tesion continue et de baisse de signal, il ne peut être utilisé pour faire passer le signal satellite. Utilisez un câble coaxial RG6.
- Nous n'encourageous pas l'utilisation de composants complémentaires immédiatement disponibles sur certains marchés. Ils pourraient ne pas fonctionner ou entraîner des chutes supplémentaires de tension continue et l'atténuation de l'amplitude du signal.
- Otez de tels composants et revenez aux connexions de base stipulées dans ce manuel puis revérifiez.
- Otez les composants spécifiques à la TV existants, tel que le répartiteur TV, etc ; réduisez l'installation au connexions de base stipulées dans ce guide. De tels composants ne fonctionneront pas avec le signal satellite et ils peuvent se trouver dans le mur où vous ne pouvezles voir. Dans le doute, branchez directement le câble RG6 à votre récepteur.
- Assurez-vous qu'il n'y ait pas d'obstacle(arbres, bâtiments, fenêtres, coins ou avancées du toit, votre corps ou vos mains)-le signal ne passe pas à travers les feuilles, les branches, le verre, etc.
- Assurez-vous que le câble du satellite est connecté à la "prise d'entrée" du satellite et non à la "prise d'entrée" de l'Antenne. La prise d'entrée de l'Antenne à l'arriére du récepteur sert à l'entrée de l'antenne hors émission ou à l'entrée du câble TV.
- Si tout a été effectué correctement et qu'aucun signal n'est capté, changez légèrement le réglage de l'angle d'élévation de l'antenne(+ /- 2 。, puis + /- 4 。 par rapport aux réglage exigés) et recommencez la procédure.

Perte de Signal / « Affaiblissement dû à la pluie »

- Le signal du satellite peut être emporairement perdu cause d'inhabituelles chutes de pluie. Une antenne alignée de façon optimale et un câble le plus court possible minimise le risque d'"Evanouissement dû à la pluie".
- Assurez-vous que l'antenne est montée solidement afin d'éviter qu'elle ne soit soufflée et sortie de son alignement par un vent fort.
- L'accumulation de neige sur l'antenne peut réduire la puissance du signal du satellite ; la neige doit être balayée dès que possible.
- La croissance du feuillage dans la ligne de visée de l'antenne vers le satellite peut entrîner une perte progessive d'image.



SELFSAT™

Flat Satellite Antenna

Austria

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Amstetten 14e9, 48n1	Az	145.4	162.3	174.2	182.5	205.9	233.2
	El	28.8	33.3	34.6	34.7	31.5	20.1
	Sk	-22.2	-4.7	3.2	1.7	17.0	32.4
Bad Ischl 13e6, 47n7	Az	143.9	160.7	172.5	180.9	204.5	232.2
	El	28.7	33.4	34.9	35.2	32.3	21.0
	Sk	-23.4	-5.9	1.9	0.6	16.2	32.1
Bludenz 9e8, 47n2	Az	139.4	155.6	167.3	175.7	199.9	228.7
	El	27.4	32.9	35.0	35.7	33.9	23.5
	Sk	-26.3	-9.3	-1.6	-3.0	13.3	30.7
Braunau 13e1, 48n3	Az	143.4	160.1	171.8	180.1	203.6	231.4
	El	28.0	32.7	34.3	34.6	31.9	21.0
	Sk	-23.3	-6.1	1.6	0.1	15.5	31.3
Dornbirn 9e8, 47n4	Az	139.4	155.6	167.3	175.6	199.7	228.5
	El	27.2	32.6	34.7	35.4	33.6	23.4
	Sk	-26.1	-9.2	-1.5	-2.9	13.2	30.5
Ebensee 13e8, 47n8	Az	144.1	160.8	172.7	181.0	204.6	232.3
	El	28.7	33.3	34.8	35.1	32.1	20.9
	Sk	-23.2	-5.7	2.1	0.7	16.3	32.1
Eisenstadt 16e5, 47n5	Az	147.1	164.3	176.3	184.7	208.1	235.0
	El	30.1	34.2	35.4	35.3	31.6	19.5
	Sk	-21.5	-3.5	4.5	3.2	18.6	33.6
Fohnsdorf 14e7, 47n2	Az	144.8	161.8	173.8	182.3	206.0	233.4
	El	29.6	34.2	35.6	35.7	32.5	20.8
	Sk	-23.0	-5.2	2.8	1.6	17.3	33.1
Fürstenfeld 16e1, 47n1	Az	146.4	163.6	175.7	184.2	207.7	234.8
	El	30.3	34.6	35.8	35.8	32.1	20.1
	Sk	-22.1	-17.7	-9.5	2.9	18.5	33.8
Gmunden 13e8, 47n9	Az	144.2	160.9	172.7	181.1	204.6	232.3
	El	28.6	33.2	34.7	35.0	32.0	20.8
	Sk	-23.1	-5.7	2.1	0.7	16.2	32.0
Innsbruck 11e4, 47n3	Az	141.2	157.7	169.5	177.8	201.9	230.2
	El	28.1	33.2	35.1	35.6	33.3	22.6
	Sk	-25.2	-7.9	-0.1	-1.5	14.6	31.4
Judenburg 14e6, 47n2	Az	144.8	161.8	173.8	182.2	205.9	233.4
	El	29.6	34.2	35.6	35.7	32.5	20.8
	Sk	-23.1	-5.3	2.8	1.5	17.3	33.0
Kapfenberg 15e3, 47n4	Az	145.7	162.7	174.7	183.1	206.7	233.9
	El	29.6	34.1	35.4	35.5	32.0	20.3
	Sk	-22.5	-4.6	3.4	2.1	17.7	33.2
Kirchschlag 16e3, 47n5	Az	146.9	164.1	176.1	184.5	207.9	234.8
	El	30.0	34.2	35.4	35.3	31.6	19.6
	Sk	-21.7	-3.7	4.4	3.0	18.4	33.5
Kitzbühel 12e4, 47n5	Az	142.4	159.0	170.8	179.2	203.0	231.1
	El	28.4	33.3	35.1	35.5	32.9	21.9
	Sk	-24.4	-7.0	0.8	-0.6	15.3	31.7

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Landeck 10e6, 47n2	Az	140.2	156.6	168.3	176.7	200.8	229.4
	El	27.8	33.1	35.2	35.8	33.7	23.1
	Sk	-25.8	-8.6	0.9	-2.2	14.0	30.8
Lienz 12e8, 46n8	Az	142.5	159.3	171.2	179.7	203.7	231.7
	El	29.1	34.1	35.8	36.2	33.4	22.1
	Sk	-24.6	-7.0	1.0	-0.2	16.0	32.5
Linz 14e3, 48n3	Az	144.9	161.7	173.5	181.7	205.1	232.6
	El	28.4	32.9	34.3	34.5	31.5	20.3
	Sk	-22.5	-5.1	2.7	1.2	16.4	31.9
Loeben 15.e1, 47n4	Az	145.4	162.4	174.4	182.8	206.4	233.7
	El	29.6	34.1	35.4	35.5	32.2	20.4
	Sk	-22.6	-4.8	3.2	1.9	17.5	33.1
Ried 13e5, 48n2	Az	143.9	160.6	172.4	180.7	204.2	231.8
	El	28.2	32.8	34.4	34.6	31.8	20.8
	Sk	-23.1	-5.8	1.9	0.5	15.8	31.6
Rottenmann 14e4, 47n5	Az	144.6	161.5	173.5	181.9	205.5	233.0
	El	29.2	33.8	35.2	35.4	32.2	20.8
	Sk	-23.0	-5.3	2.6	1.3	16.9	32.7
Salzburg 13e1, 47n8	Az	143.3	159.9	171.7	180.1	203.7	231.6
	El	28.4	33.2	34.8	35.1	32.4	21.3
	Sk	-23.7	-6.3	1.5	0.1	15.7	31.8
Scheibbs 15e2, 48n0	Az	145.7	162.7	174.6	182.9	206.3	233.5
	El	29.1	33.4	34.7	34.8	31.5	20.0
	Sk	-22.1	-5.6	2.5	2.0	17.3	32.6
Spittal 13e5, 46n8	Az	143.3	160.2	172.2	180.7	204.7	232.5
	El	29.4	34.3	35.9	36.2	33.2	21.7
	Sk	-24.1	-6.4	1.7	0.5	16.6	32.9
Stockerau 16e3, 48n3	Az	147.2	164.2	176.1	184.4	207.6	234.5
	El	29.3	33.4	34.5	34.5	30.9	19.2
	Sk	-21.1	-3.4	4.4	2.9	17.9	32.8
Tauern 12e7, 47n3	Az	142.6	159.3	171.1	179.5	203.4	231.5
	El	28.7	33.6	35.3	35.7	33.0	21.9
	Sk	-24.3	-6.9	1.0	-0.3	15.7	32.0
Villach 13e9, 46n6	Az	143.6	160.6	172.7	181.2	205.2	232.9
	El	29.7	34.6	36.1	36.4	33.3	21.6
	Sk	-24.0	-6.2	2.0	0.9	17.0	33.3
Voitsberg 15e2, 47n1	Az	145.3	162.4	174.5	182.9	206.6	233.9
	El	29.9	34.4	35.8	35.9	32.4	20.6
	Sk	-22.7	-4.8	3.3	2.0	17.8	33.4
Wien 16e4, 48n2	Az	147.2	164.3	176.2	184.5	207.7	234.6
	El	29.4	33.5	34.6	34.6	30.9	19.2
	Sk	-21.1	-3.4	4.5	3.0	18.1	32.9

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Belgium

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Antwerpen 4e4, 51n2	Az	135.4	450.5	161.3	169.0	192.0	221.3
	El	21.7	27.3	29.7	30.8	30.7	23.1
	Sk	-26.1	-11.0	-4.6	-6.9	7.5	24.4
Arlon 5e8, 49n7	Az	136.2	151.6	162.7	170.6	194.0	223.4
	El	23.5	29.1	31.6	32.6	32.1	23.7
	Sk	-26.6	-10.9	-4.1	-6.1	9.0	26.4
Bastogne 5e7, 50n0	Az	136.2	151.6	162.6	170.5	193.9	223.2
	El	23.2	28.8	31.3	32.3	331.8	23.5
	Sk	-26.4	-10.8	-4.1	-6.1	8.9	26.1
Bergen 4e0, 50n5	Az	134.6	149.7	160.6	168.4	191.6	221.1
	El	22.0	27.8	30.4	31.6	31.6	23.9
	Sk	-26.9	-11.7	-5.2	-7.4	7.4	24.8
Brügge 3e2, 51n2	Az	134.1	149.2	159.8	167.5	190.5	220.0
	El	21.1	26.9	29.5	30.7	90.9	23.6
	Sk	-26.7	-11.8	-5.5	-7.8	6.5	23.8
Brüssel (Bruxelles) 4e4, 50n8	Az	135.1	150.4	161.2	169.0	192.0	221.4
	El	22.0	27.7	30.2	31.3	31.1	23.5
	Sk	-26.5	-11.2	-4.8	-7.0	7.6	24.7
Charleroi 4e5, 50n4	Az	135.1	150.3	161.1	169.0	192.2	221.7
	El	22.3	28.0	30.6	31.7	31.5	23.8
	Sk	-26.7	-11.4	-4.9	-7.0	7.8	25.1
Eupen 6e0, 50n6	Az	136.8	152.2	163.1	171.0	194.1	223.2
	El	22.9	28.4	30.7	31.7	31.1	22.9
	Sk	-25.8	-10.2	-3.6	-5.7	8.9	25.8
Gent 3e7, 51n0	Az	134.6	149.6	160.4	168.1	191.1	220.6
	El	21.5	27.2	29.8	30.9	31.0	23.6
	Sk	-26.7	-11.6	-5.2	-7.5	7.0	24.2

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Hasselt 5e3, 50n9	Az	136.2	151.4	162.3	170.1	193.2	222.4
	El	22.3	27.8	30.3	31.3	30.9	23.0
	Sk	-25.9	-10.6	-1.1	-6.2	8.3	25.2
Kortrijk 3e3, 50n8	Az	134.0	149.1	159.8	167.5	190.6	220.3
	El	21.4	27.2	29.9	31.1	31.3	23.9
	Sk	-27.0	-12.0	-5.6	-7.8	6.7	24.1
Leuven 4e7, 50n9	Az	135.5	150.7	161.6	169.4	192.4	221.7
	El	22.1	27.6	30.1	31.2	31.0	23.3
	Sk	-26.2	-11.0	-4.5	-6.7	7.8	24.8
Lüttich 5e6, 50n6	Az	136.3	151.7	162.6	17.04	193.6	222.8
	El	22.7	28.2	30.6	31.6	31.1	23.1
	Sk	-26.0	-10.5	-3.9	-6.0	8.6	25.6
Malmedy 6e0, 50n4	Az	136.7	152.1	163.1	170.9	194.2	223.3
	El	23.1	28.5	30.9	31.9	31.3	23.1
	Sk	-25.9	-10.4	-3.7	-5.8	9.0	25.9
Mecheln 4e5, 51n0	Az	135.4	150.5	161.3	169.1	192.1	221.5
	El	21.9	27.5	29.9	31.0	90.9	23.2
	Sk	-26.2	-11.0	-4.6	-6.8	7.6	24.6
Namur 4e9, 50n5	Az	135.5	150.8	161.7	169.5	192.7	22.1
	El	22.5	28.1	30.6	31.7	31.4	23.5
	Sk	3.8	-11.1	-4.5	-6.6	8.1	25.3
Eende 2e9, 51n2	Az	133.8	148.8	159.5	167.1	190.1	219.7
	El	21.0	26.7	29.4	30.6	30.9	23.8
	Sk	-26.9	-12.0	-5.7	-8.0	6.3	23.6

Note

As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

France

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Amiens 2e3, 49n9	Az	132.6	147.6	158.3	166.1	189.5	219.5
	El	21.6	27.7	30.6	31.9	32.4	25.1
	Sk	-28.3	-13.2	-6.8	-8.9	6.1	24.2
Angers 0w6, 47n5	Az	128.7	143.3	154.0	161.9	186.0	217.4
	El	21.8	28.7	32.2	33.8	35.3	28.4
	Sk	-31.8	-16.8	-10.2	-12.1	4.0	24.2
Angouleme 0e2, 45n7	Az	128.6	143.3	154.3	162.3	187.2	219.1
	El	23.4	30.6	34.2	35.9	37.2	29.6
	Sk	-33.1	-17.7	-10.7	-12.3	5.1	26.2
Arras 2e8, 50n3	Az	133.3	148.3	159.0	166.8	190.1	219.9
	El	21.6	27.6	30.4	31.6	31.9	24.6
	Sk	-27.7	-12.6	-6.2	-8.4	6.4	24.2
Bayonne 1e5, 43n3	Az	128.8	143.7	155.1	163.5	189.4	221.8
	El	25.8	33.3	37.0	38.7	39.6	30.9
	Sk	-34.6	-18.5	-10.9	-12.0	6.9	29.0
Belfort 6e8, 47n6	Az	136.4	152.1	163.5	171.7	195.8	225.4
	El	25.6	31.5	34.0	35.0	34.1	24.8
	Sk	-27.7	-11.4	-4.1	-5.6	10.6	28.7
Bordeaux 0w6, 44n8	Az	127.5	142.1	153.0	161.1	186.3	218.7
	El	23.5	31.0	34.8	36.6	38.2	30.7
	Sk	-34.2	-18.8	-11.8	-13.3	4.4	26.3
Boulogne 1w6, 50n7	Az	132.3	147.1	157.7	165.4	184.4	214.9
	El	20.8	26.8	29.6	31.0	31.8	26.1
	Sk	-27.9	-13.1	-6.9	-9.2	2.8	21.3
Brest 4w5, 48n4	Az	125.3	139.3	149.6	157.1	180.6	212.5
	El	19.0	26.2	30.0	31.9	34.4	29.3
	Sk	-32.8	-18.6	-12.7	-15.0	0.4	20.9
Caen 0w4, 49n2	Az	129.7	144.3	154.8	162.6	186.1	216.9
	El	20.8	27.3	30.6	32.2	33.4	26.9
	Sk	-30.2	-15.5	-9.1	-11.3	4.0	23.1
Calais 1e9, 51n0	Az	132.7	147.6	158.2	165.9	188.9	218.7
	El	20.7	26.6	29.5	30.7	31.3	24.4
	Sk	-27.6	-12.8	-6.5	-8.9	5.6	23.2
Chalons-sur-Marne 4w3, 49n0	Az	134.3	149.6	160.6	168.6	192.3	222.2
	El	23.3	29.3	32.1	33.2	33.1	25.0
	Sk	-28.0	-12.4	-5.6	-7.5	8.0	26.1
Charleville-Mezieres 4e7, 49n7	Az	135.0	150.3	161.2	169.1	192.6	222.2
	El	22.9	28.7	31.4	32.5	32.2	24.2
	Sk	-27.2	-11.7	-5.0	-7.0	8.1	25.8
Clermont-Ferrand 3e1, 45n8	Az	131.6	146.8	158.0	166.3	191.2	222.3
	El	25.0	31.8	35.0	36.4	36.7	28.1
	Sk	-31.5	-15.5	-8.1	-9.5	7.8	28.0
Colmar 7e3, 48n1	Az	137.1	152.9	164.2	172.4	196.4	225.7
	El	25.5	31.2	33.7	34.5	33.5	24.2
	Sk	-27.1	-10.7	-3.5	-5.1	10.8	28.5

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Mulhouse 7e3, 47n7	Az	136.9	152.7	164.1	172.4	196.5	225.9
	El	25.8	31.6	34.1	35.0	33.9	24.5
	Sk	-27.4	-11.0	-3.6	-5.1	11.0	28.9
Nancy 6e2, 48n7	Az	136.2	151.7	162.9	171.0	194.8	224.3
	El	24.5	30.2	32.8	33.7	33.1	24.3
	Sk	-27.2	-11.2	-4.2	-5.9	9.7	27.4
Nantes 1w6, 47n2	Az	127.6	142.1	152.7	160.5	184.6	216.4
	El	21.4	28.5	32.1	33.9	35.6	29.1
	Sk	-32.5	-17.7	-11.2	-13.1	3.1	23.8
Nizza 7w3, 43n7	Az	135.0	151.0	163.0	171.7	197.5	227.8
	El	28.9	35.4	38.3	39.3	38.1	27.4
	Sk	-30.8	-13.5	-5.2	-6.0	12.6	32.4
Orleans 1e9, 47n9	Az	131.4	146.3	157.2	165.1	189.2	220.0
	El	22.8	29.4	32.5	33.9	34.6	27.0
	Sk	-30.2	-14.8	-8.1	-9.9	6.2	25.5
Paris 2e3, 48n9	Az	132.2	147.2	158.1	166.0	189.7	220.0
	El	22.4	28.7	31.7	33.1	33.5	26.0
	Sk	-29.2	-13.9	-7.2	-9.2	6.3	25.0
Quimper 4w2, 48n0	Az	125.5	139.6	149.9	157.4	181.1	213.1
	El	19.4	26.7	30.5	32.4	34.9	29.5
	Sk	-33.0	-18.7	-12.6	-14.9	0.7	21.4
Reims 4e0, 49n3	Az	134.1	149.3	160.3	168.2	191.8	221.7
	El	23.0	29.0	31.7	32.9	32.9	24.9
	Sk	-27.9	-12.4	-5.7	-7.7	7.7	25.7
Rennes 1w7, 48n1	Az	127.9	142.3	152.9	160.6	184.5	215.9
	El	20.8	27.7	31.2	32.9	34.7	28.4
	Sk	-31.8	-17.1	-10.7	-12.8	3.0	23.0
Rouen 1e1, 49n5	Az	131.2	146.0	156.7	164.5	188.0	218.4
	El	21.3	27.7	30.7	32.2	33.0	26.0
	Sk	-29.3	-14.3	-7.9	-10.0	5.2	23.8
St.-Etienne 4e4, 45n4	Az	132.8	148.2	159.6	168.0	193.1	223.8
	El	26.0	32.6	35.7	37.0	36.9	27.7
	Sk	-31.0	-14.7	-7.1	-8.4	9.2	29.1
St.-Nazaire 2w2, 47n3	Az	127.1	141.4	151.9	159.7	183.8	215.7
	El	21.0	28.2	31.8	33.7	35.6	29.3
	Sk	-32.8	-18.1	-11.6	-13.6	2.6	23.3
St.-Quentin 3e3, 49n8	Az	133.6	148.7	159.5	167.3	190.8	220.6
	El	22.2	28.1	30.9	32.1	32.3	24.8
	Sk	-27.8	-12.6	-6.0	-8.1	7.0	24.9
Straßburg 7e8, 48n6	Az	137.8	153.6	164.9	173.0	196.8	225.9
	El	25.3	30.9	33.2	34.0	32.9	23.6
	Sk	-26.4	-10.1	-2.9	-4.6	11.1	28.4

Note

As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Germany

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Aachen 6e1, 50n8	Az	136.9	152.3	163.3	171.1	194.2	223.2
	El	22.8	28.2	30.5	31.5	30.9	22.7
	Sk	-25.6	-10.1	-3.5	-5.6	8.9	25.7
Aalen 10e1, 48n8	Az	140.4	156.5	168.0	176.2	199.7	228.2
	El	26.2	31.3	33.3	33.9	32.1	22.2
	Sk	-24.8	-8.2	-0.9	-2.5	12.9	29.4
Aschaffenburg 9e2, 50n0	Az	139.9	155.7	167.0	175.0	198.2	226.8
	El	24.8	29.9	31.9	32.6	31.2	21.9
	Sk	-24.4	-8.3	-1.3	-3.2	11.7	27.9
Augsburg 10e9, 48n4	Az	141.1	157.4	169.0	177.2	200.9	229.2
	El	26.9	32.0	33.9	34.4	32.4	22.1
	Sk	-24.6	-7.8	-0.3	-1.9	13.7	30.2
Bad Hersfeld 9e7, 50n9	Az	140.8	156.7	167.8	175.8	198.7	227.0
	El	24.3	29.2	31.1	31.7	30.1	20.9
	Sk	-23.5	-7.5	-0.6	-2.7	11.7	27.4
Bad Homburg 8e6, 50n2	Az	139.4	155.2	166.3	174.3	197.5	226.1
	El	24.4	29.5	31.6	32.3	31.0	21.9
	Sk	-24.6	-8.6	-1.7	-3.7	11.1	27.5
Bad Neuenahr 7e1, 50n6	Az	137.9	153.5	164.5	172.4	195.5	224.4
	El	23.5	28.8	31.0	31.8	31.0	22.4
	Sk	-25.2	-9.5	-2.8	-4.8	9.8	26.4
Baden-Baden 8e2, 48n8	Az	138.4	154.2	165.6	173.7	197.4	226.3
	El	25.4	30.8	33.1	33.9	32.6	23.2
	Sk	-26.0	-9.7	-2.5	-4.2	11.3	28.4
Bamberg 10e9, 49n9	Az	141.7	157.8	169.2	177.2	200.4	228.5
	El	25.6	30.5	32.3	32.8	30.8	21.0
	Sk	-23.5	-7.1	0.8	-1.8	13.0	28.9
Bergen 13e4, 54n4	Az	146.2	162.0	172.9	180.5	202.3	229.3
	El	22.7	26.5	27.7	27.9	25.7	16.7
	Sk	-18.9	-3.4	2.9	0.3	12.7	26.2
Berlin 13e4, 52n5	Az	145.5	161.6	172.7	180.5	202.8	230.0
	El	24.4	28.4	29.7	30.0	27.6	18.0
	Sk	-20.2	-4.1	2.6	0.3	13.6	27.8
Bingen 9e3, 48n1	Az	139.2	155.3	166.8	175.0	198.9	227.7
	El	26.4	31.8	33.9	34.6	33.0	23.1
	Sk	-25.9	-9.2	-1.8	-3.3	12.5	29.6
Bonn 7e1, 50n7	Az	138.0	153.5	164.5	172.4	195.5	224.3
	El	23.3	28.6	30.8	31.6	30.8	22.3
	Sk	-25.1	-9.4	-2.7	-4.8	9.7	26.3
Bremen 8e8, 53n1	Az	140.7	156.2	167.1	174.8	197.1	225.2
	El	22.1	26.8	28.6	29.2	28.0	19.7
	Sk	-22.4	-7.0	-0.7	-3.2	10.2	25.2
Chemnitz 12e9, 50n8	Az	144.3	160.6	171.9	179.9	202.6	230.2
	El	25.7	30.0	31.5	31.8	29.4	19.4
	Sk	-21.6	-5.2	-1.9	-0.1	14.1	29.0
Frankfurt am Main 8e7, 50n1	Az	139.4	155.2	166.4	166.4	197.6	226.2
	El	24.5	29.6	31.7	31.7	31.1	22.0
	Sk	-24.7	-8.6	-1.7	-1.7	11.2	27.6
Freising 11e8, 48n4	Az	142.1	158.5	170.1	170.1	201.9	230.0
	El	27.3	32.2	34.0	34.0	32.1	21.6
	Sk	-24.1	-7.1	0.5	0.5	14.4	30.6
Göttingen 9e9, 51n5	Az	141.3	157.1	168.2	168.2	198.8	226.9
	El	23.9	28.6	30.4	30.4	29.4	20.4
	Sk	-22.9	-7.0	-0.3	-0.3	11.6	27.0
Hamburg 10e0, 53n6	Az	142.2	157.8	168.7	168.7	198.5	226.2
	El	22.2	26.6	28.3	28.3	27.3	18.8
	Sk	-21.3	-6.0	0.3	0.3	10.8	25.4
Heide 9e1, 54n2	Az	141.4	156.9	167.6	167.6	197.2	225.1
	El	21.3	25.7	27.5	27.5	26.8	18.8
	Sk	-21.4	-6.3	-0.2	-0.2	10.0	24.5
Heidelberg 8e7, 49n4	Az	139.1	155.0	166.3	166.3	197.8	226.5
	El	25.1	30.3	32.5	32.5	31.9	22.5
	Sk	-25.2	-9.0	-1.9	-1.9	11.5	28.2
Hof 11e9, 50n3	Az	143.0	159.2	170.6	170.6	201.6	229.4
	El	25.7	30.3	31.9	31.9	30.2	20.2
	Sk	-22.6	-6.1	1.0	1.0	13.6	29.0
Köln 7e0, 51n0	Az	137.9	153.4	164.4	164.4	195.2	224.1
	El	23.1	28.3	30.5	30.5	30.6	22.2
	Sk	-24.9	-9.3	-2.7	-2.7	9.6	26.0
Lübeck 10e7, 53n9	Az	143.0	158.7	169.5	169.5	199.2	226.8
	El	22.2	26.4	28.0	28.0	26.8	18.3
	Sk	-20.8	-5.4	0.9	0.9	11.2	25.4
München 11e6, 48n1	Az	141.7	158.1	169.8	169.8	201.8	230.0
	El	27.4	32.4	34.2	34.2	32.4	21.9
	Sk	-24.4	-7.38	0.23	0.23	14.4	30.8
Münster 8e9, 49n9	Az	139.5	155.4	166.6	166.6	197.9	226.5
	El	24.7	29.9	31.9	31.9	31.3	22.0
	Sk	-24.7	-8.6	-1.6	-1.6	11.4	27.9
Nienburg 11e8, 51n8	Az	143.5	159.4	170.6	170.6	201.0	228.6
	El	24.4	28.7	30.3	30.3	28.7	19.2
	Sk	-21.6	-5.5	1.2	1.2	12.8	27.7
Offenburg 8e0, 48n5	Az	137.9	153.8	165.1	165.1	197.1	226.2
	El	25.5	31.0	33.3	33.3	33.0	23.6
	Sk	-26.3	-10.0	-2.8	-2.8	11.3	28.6
Passau 13e5, 48n6	Az	144.1	160.7	172.4	172.4	204.0	231.7
	El	27.9	32.5	34.0	34.0	31.5	20.6
	Sk	-22.8	-5.6	2.0	2.0	15.6	31.3

Note

As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Great Britain

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Aberdeen 2w1, 57n1	Az	130.9	145.2	155.1	162.2	183.5	212.2
	El	14.6	19.8	22.4	23.7	25.0	20.6
	Sk	-24.2	-11.1	-6.2	-9.6	1.9	16.8
Belfast 5w9, 54n6	Az	126.3	140.2	150.1	157.2	178.9	208.7
	El	14.4	20.5	23.7	25.4	27.7	24.0
	Sk	-27.8	-14.7	-9.8	-13.0	-0.6	16.2
Birmingham 1w8, 52n5	Az	129.6	143.9	154.1	161.5	184.0	214.0
	El	17.8	23.9	26.9	28.4	29.9	24.6
	Sk	-28.0	-14.1	-8.4	-11.1	2.5	19.9
Bradford 1w8, 53n8	Az	130.1	144.5	154.6	161.9	184.0	213.7
	El	16.9	22.8	25.7	27.1	28.5	23.4
	Sk	-26.9	-13.1	-7.7	-10.6	2.3	19.1
Bristol 2w6, 51n5	Az	128.4	142.7	152.9	160.4	183.1	213.6
	El	18.1	24.5	27.7	29.3	31.1	25.8
	Sk	-29.2	-15.2	-9.5	-12.1	1.9	20.1
Cardiff 3w16, 51n48	Az	127.9	142.1	152.3	159.7	182.4	212.9
	El	17.8	24.3	27.5	29.2	31.1	25.9
	Sk	-29.4	-15.5	-9.9	-12.5	1.5	19.8
Chichester 0w778, 50n83	Az	130.0	144.5	154.9	162.4	185.4	215.8
	El	19.4	25.8	28.9	30.4	31.6	25.6
	Sk	-29.0	-13.6	-7.4	-11.0	3.4	21.7
Coventry 1w5, 52n42	Az	129.9	144.3	154.5	161.9	184.4	214.4
	El	18.0	21.1	27.0	28.6	30.0	24.5
	Sk	-27.9	-13.9	-8.2	-10.9	2.7	20.2
Dover 1w3, 51n1	Az	132.1	146.9	157.5	165.1	188.1	218.0
	El	20.3	26.3	29.1	30.5	31.2	24.6
	Sk	-27.8	-13.1	-6.9	-9.3	5.1	22.7
Edinburgh 3w2, 56n0	Az	129.4	143.6	153.6	160.7	182.2	211.4
	El	14.8	20.4	23.2	24.6	26.2	21.9
	Sk	-25.6	-12.4	-7.4	-10.7	1.2	16.9
Glasgow 4w2, 55n9	Az	128.4	142.5	152.4	159.5	180.9	210.2
	El	14.4	20.1	23.0	24.5	26.4	22.3
	Sk	-26.0	-13.0	-8.1	-11.3	0.5	16.4
Greenwich 0e0, 51n48	Az	131.0	145.6	156.0	156.0	186.4	216.4
	El	19.4	25.5	28.4	28.4	30.9	24.7
	Sk	-28.0	-13.6	-7.7	-14.7	4.0	21.7
Swansea 4w0, 51n6	Az	127.1	141.2	151.3	158.7	181.3	211.9
	El	17.3	23.8	27.1	28.8	31.0	26.1
	Sk	-29.7	-11.0	-4.8	-13.1	0.8	19.2
Wolverhampton 2w2, 52n6	Az	129.2	143.6	153.7	161.1	183.5	213.6
	El	17.5	23.6	26.7	28.2	29.8	24.6
	Sk	-28.1	-11.5	-5.6	-11.3	2.1	19.6
York 1w08, 53n95	Az	130.9	145.3	155.4	162.8	184.8	214.4
	El	17.2	22.9	25.7	27.1	28.3	23.0
	Sk	-26.4	-12.6	-7.16	-10.0	2.9	19.4

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Iverness 4w2, 57n5	Az	129.0	143.0	152.8	159.8	180.9	209.8
	El	13.4	18.8	21.5	22.9	24.6	20.8
	Sk	-24.7	-7.5	-2.4	-10.7	0.5	15.5
Kingston upon hull 0w33, 53n75	Az	131.5	146.0	156.3	163.6	185.8	215.2
	El	17.6	23.4	26.1	27.4	28.5	22.9
	Sk	-26.3	-12.3	-6.8	-9.6	3.4	20.0
Leeds 1w6, 53n8	Az	130.3	-12.96	-7.54	162.1	184.2	213.8
	El	17.0	22.8	25.7	27.1	28.5	23.3
	Sk	-26.8	-13.0	-7.5	-10.5	2.5	19.2
Liverpool 2w9, 53n4	Az	128.8	143.1	153.2	160.4	182.6	212.5
	El	16.6	22.7	25.7	27.3	29.0	24.1
	Sk	-27.7	-14.1	-8.7	-11.5	1.6	18.7
Leicester 1w08, 52n63	Az	130.4	144.8	155.1	162.5	184.9	214.8
	El	18.1	24.1	27.0	28.4	29.7	24.2
	Sk	-27.6	-13.5	-7.8	-10.5	3.0	20.3
London 0w2, 51n5	Az	130.8	145.4	155.8	163.4	186.2	216.2
	El	19.3	25.4	28.3	29.8	30.9	24.8
	Sk	-28.1	-13.6	-7.7	-10.3	3.8	21.6
Manchester 2w3, 53n5	Az	129.5	143.8	154.0	161.3	183.4	213.2
	El	16.9	22.9	25.8	27.3	28.9	23.8
	Sk	-10.4	-13.6	-8.2	-11.1	2.0	19.0
Newcastle uponTyne 1w6, 55n0	Az	130.7	145.0	155.1	162.4	184.1	213.4
	El	16.2	21.8	24.5	25.9	27.2	22.3
	Sk	-25.8	-10.4	-5.0	-10.0	2.4	18.4
Norwich 1e3, 52n6	Az	132.7	147.4	157.9	165.4	187.9	217.4
	El	19.2	24.9	27.6	28.9	29.6	23.3
	Sk	-26.5	-12.1	-6.2	-8.8	4.8	21.7
Nottingham 1w3, 52n9	Az	130.2	144.6	154.9	162.3	184.6	214.5
	El	17.8	23.7	26.6	28.1	29.5	24.0
	Sk	-27.4	-11.9	-6.1	-10.6	2.8	20.0
Playmouth 4w2, 50n4	Az	126.5	140.5	150.7	158.1	181.0	212.1
	El	17.9	24.7	28.2	30.0	32.3	27.3
	Sk	-30.8	-16.9	-11.1	-13.8	0.7	19.8
Portsmout 1w1, 50n8	Az	129.6	144.1	154.5	162.0	185.0	215.5
	El	19.3	25.6	28.7	30.3	31.7	25.8
	Sk	-29.1	-13.4	-7.2	-11.2	3.2	21.5
Sheffield 1w5, 53n4	Az	130.2	144.6	154.8	162.1	184.4	214.1
	El	17.3	23.2	26.1	27.6	28.9	23.7
	Sk	-27.1	-13.2	-7.7	-10.5	2.6	19.5
Southampeton 1w38, 50n9	Az	129.4	143.8	154.2	161.7	184.7	215.1
	El	19.1	25.5	28.6	30.1	31.6	25.8
	Sk	-29.2	-14.9	-8.9	-11.4	2.9	21.3

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Italy

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Ancona 13e5, 43n6	Az	141.8	159.2	171.8	180.7	205.9	234.0
	El	32.2	37.6	39.4	39.8	36.4	23.7
	Sk	-21.6	-7.9	1.1	0.5	18.4	35.9
Arezzo 11e8, 43n5	Az	139.8	156.9	169.4	178.3	203.7	232.5
	El	31.5	37.2	39.3	39.9	37.1	24.9
	Sk	-27.9	-9.6	-0.7	-1.2	16.9	35.1
Asciano 11e5, 43n2	Az	139.3	156.4	168.9	177.9	203.4	232.3
	El	31.5	37.4	39.5	40.1	37.4	25.2
	Sk	-28.4	-10.0	-1.1	-1.6	16.8	35.2
Ascoli Piceno 13e6, 42n9	Az	141.5	159.0	171.7	180.8	206.3	234.4
	El	32.9	38.4	40.2	40.6	37.1	24.2
	Sk	-27.1	-8.2	1.0	0.6	18.9	36.6
Ascoli Satriano 15e5, 41n2	Az	142.9	161.2	174.4	183.8	209.6	237.1
	El	35.3	40.7	42.3	42.3	38.0	23.9
	Sk	-27.0	-7.1	2.8	2.9	21.8	39.2
Bari 16e9, 41n1	Az	144.5	163.1	176.5	185.9	211.4	238.4
	El	36.0	41.1	42.4	42.3	37.5	23.0
	Sk	-25.9	-5.7	4.3	4.4	23.2	39.9
Barletta 16e3, 41n3	Az	143.9	162.3	175.6	185.0	210.5	237.7
	El	35.5	40.7	42.2	42.1	37.5	23.3
	Sk	-26.3	-6.2	3.7	3.7	22.5	39.5
Bergamo 9e7, 45n7	Az	138.5	154.9	166.8	175.3	200.1	229.2
	El	28.5	34.3	36.6	37.3	35.4	24.6
	Sk	-27.5	-10.2	-2.2	-3.2	13.9	31.9
Bologna 11e3, 44n5	Az	139.8	156.6	168.8	177.6	202.7	231.4
	El	30.4	36.0	38.1	38.7	36.2	24.5
	Sk	-27.5	-9.5	-0.9	-1.7	15.9	33.9
Bolzano 11e3, 46n5	Az	140.7	157.3	169.2	177.7	202.0	230.5
	El	28.7	34.0	36.0	36.5	34.2	23.1
	Sk	-25.9	-8.4	-0.4	-1.6	14.9	32.1
Brescia 10e3, 45n5	Az	139.1	155.6	167.6	176.2	201.0	229.9
	El	29.0	34.7	36.9	37.6	35.5	24.4
	Sk	-27.3	-9.8	-1.6	-2.6	14.5	32.4
Cagliari 9e1, 39n3	Az	134.4	151.3	164.3	173.9	201.7	232.1
	El	33.3	40.4	43.4	44.4	42.3	29.4
	Sk	-33.6	-14.8	-5.1	-4.7	16.6	37.6
Carpi 10e9, 44n8	Az	139.4	156.1	168.3	177.0	202.0	230.8
	El	29.9	35.6	37.8	38.4	36.0	24.6
	Sk	-27.5	-8.8	1.2	1.4	15.4	33.4
Carrara 10e1, 44n1	Az	138.2	154.9	167.1	175.9	201.2	230.5
	El	30.1	36.1	38.4	39.1	37.0	25.5
	Sk	-28.6	-10.8	-2.3	-3.0	15.1	33.6
Catania 15e1, 37n5	Az	140.2	159.0	173.2	183.4	211.0	238.7
	El	38.2	44.4	46.3	46.5	41.7	26.3
	Sk	-30.	-9.5	1.6	2.7	24.1	42.7
La Spezia 9e8, 44n1	Az	137.9	154.5	166.7	175.5	200.8	230.1
	El	29.9	35.9	38.3	39.0	37.0	25.6
	Sk	-28.8	-11	-2.5	-3.3	14.8	33.5
Lecce 18e2, 40n3	Az	145.7	164.7	178.4	188.0	213.5	239.9
	El	37.3	42.2	43.4	43.1	37.6	22.5
	Sk	-25.5	-4.6	-5.8	6.1	24.9	41.3
Livorno 10e3, 43n5	Az	138.1	154.9	167.2	176.1	201.7	230.9
	El	30.6	36.7	39.1	39.8	37.5	25.8
	Sk	-29.0	-11.0	-2.3	-2.8	15.5	34.3
Milano 9e2, 45n5	Az	137.9	154.2	166.1	174.7	199.5	228.8
	El	28.5	34.4	36.8	37.5	35.8	25.1
	Sk	-28.0	-10.8	-2.7	-2.8	13.6	31.8
Napoli 14e3, 40n8	Az	141.2	159.2	172.5	181.9	208.1	236.1
	El	34.9	40.7	42.6	42.8	38.8	24.9
	Sk	-28.3	-8.6	1.3	1.5	21.0	39.0
Padova 11e6, 45n3	Az	140.5	157.2	169.4	178.0	202.8	231.3
	El	29.8	35.3	37.3	37.8	35.3	23.8
	Sk	-26.6	-8.8	-0.5	-1.4	15.8	33.3
Palermo 13e4, 38n1	Az	138.5	156.8	170.6	180.6	208.3	236.8
	El	36.7	43.2	45.4	45.8	41.8	27.1
	Sk	-31.4	-11.1	-0.4	0.5	21.9	41.2
Parma 10e3, 44n8	Az	138.8	155.4	167.5	176.2	201.3	230.3
	El	29.6	35.4	37.7	38.3	36.1	24.8
	Sk	-27.9	-10.2	-1.8	-2.7	14.9	33.1
Pavia 9e2, 45n2	Az	137.7	154.1	166.0	174.6	199.6	229.0
	El	28.7	34.7	37.1	37.9	36.1	25.3
	Sk	-28.3	-11.0	-2.8	-3.8	13.7	32.1
Pesaro 12e9, 43n9	Az	141.2	158.5	170.9	179.8	204.9	233.2
	El	31.6	37.1	39.0	39.4	36.3	23.9
	Sk	-26.8	-8.3	0.5	-0.1	17.7	35.3
Pescara 14e2, 42n5	Az	142.0	159.8	172.6	181.8	207.3	235.2
	El	33.5	39.0	40.7	41.0	37.2	24.0
	Sk	-27.0	-7.8	1.6	1.3	19.7	37.3
Piacenza 9e6, 45n0	Az	138.1	154.5	166.5	175.2	200.2	229.5
	El	29.1	35.0	37.3	38.1	36.2	25.2
	Sk	-28.2	-10.7	-2.5	-3.4	14.2	32.5
Pisa 10e4, 43n7	Az	138.3	155.1	167.3	176.2	201.7	230.9
	El	30.5	36.5	38.8	39.5	37.3	25.6
	Sk	-28.7	-10.7	-2.1	-2.7	15.5	34.2
Roma 12e5, 41n9	Az	139.7	157.2	170.0	179.3	205.3	233.9
	El	33.1	39.1	41.2	41.6	38.4	25.5
	Sk	-28.8	-9.8	-0.4	-0.6	18.5	37.0

Note

As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Luxembourg

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	**28.2E**	**19.2E**	**13.0E**	**5.0W**	**30.0W**
Differdange 5e9, 49n5	Az	136.2	151.7	162.7	170.7	194.2	223.6
	El	23.7	29.3	31.8	32.8	32.3	23.8
	Sk	-26.7	-11.0	-4.1	-6.0	9.2	26.6
Dudelange 6e1, 49n5	Az	136.4	151.9	163.0	170.9	194.5	223.8
	El	23.8	29.5	31.9	32.9	32.3	23.7
	Sk	-26.6	-10.9	4.0	-5.9	9.3	26.7
Esch 6e0, 49n5	Az	136.3	151.8	162.9	170.8	194.3	223.7
	El	23.7	29.4	31.8	32.8	32.2	23.7
	Sk	-26.7	-10.9	-4.0	-5.9	9.3	26.7
Ettelbruck 6e1, 49n8	Az	136.5	152.0	163.1	171.0	194.4	223.7
	El	23.6	29.2	31.6	32.5	31.9	23.5
	Sk	-26.4	-10.7	-3.9	-5.8	9.2	26.5

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	**28.2E**	**19.2E**	**13.0E**	**5.0W**	**30.0W**
Luxembourg 6e2, 49n6	Az	136.5	152.0	163.1	171.0	194.5	223.8
	El	23.7	29.3	31.8	32.7	32.1	23.6
	Sk	-26.5	-10.8	-3.9	-5.8	9.4	26.7
Petange 5e9, 49n6	Az	136.2	151.7	162.7	170.7	194.2	223.6
	El	23.7	29.3	31.8	32.8	32.2	23.8
	Sk	-26.6	-10.9	-4.1	-6.0	9.1	26.5
Remich 6e4, 49n6	Az	136.7	152.3	163.4	171.3	197.8	224.1
	El	23.9	29.5	31.9	32.8	32.2	23.5
	Sk	-26.4	-10.6	-3.7	-5.6	9.6	26.8

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Netherlands

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Alkmar 4e7, 52n7	Az	136.2	151.3	162.0	169.6	192.1	221.0
	El	20.7	26.0	28.3	29.3	29.1	21.8
	Sk	-24.8	-9.9	-3.8	-6.3	7.3	23.5
Almelo 6e7, 52n3	Az	138.2	153.5	164.3	172.1	194.7	223.3
	El	21.9	26.9	29.1	29.9	29.2	21.3
	Sk	-24.1	-8.8	-2.5	-4.9	8.9	24.8
Amsterdam 4e9, 52n4	Az	136.3	151.5	162.2	169.8	192.4	221.4
	El	21.1	26.3	28.7	29.7	29.4	22.0
	Sk	-24.9	-10.0	-3.8	-6.2	7.5	23.8
Apeldoorn 6e0, 52n2	Az	137.4	152.6	163.4	171.1	193.8	222.5
	El	21.6	26.8	29.0	29.9	29.4	21.7
	Sk	-24.5	-9.4	-3.1	-5.4	8.4	24.5
Arnhem 5e9, 52n0	Az	137.2	152.5	163.3	171.0	193.7	222.6
	El	21.8	27.0	29.2	30.2	29.7	21.9
	Sk	-24.7	-9.5	-3.2	-5.5	8.4	24.6
Breda 4e7, 51n6	Az	135.8	151.0	161.7	169.5	192.3	221.5
	El	21.5	27.0	29.4	30.4	30.3	22.7
	Sk	-25.7	-10.5	-4.2	-6.5	7.6	24.3
Den Haag 4e3, 52n1	Az	135.6	150.7	161.4	169.0	191.7	220.8
	El	21.0	26.4	28.9	29.8	29.8	22.5
	Sk	-25.5	-10.5	-4.3	-6.7	7.2	23.7
Eindhoven 5e5, 51n4	Az	136.6	151.9	162.7	170.4	193.3	22.4
	El	22.0	27.4	29.7	30.7	30.3	22.5
	Sk	-24.6	-10.1	-3.7	-5.9	8.0	24.1
Emmen 6e9, 52n8	Az	138.6	153.9	164.7	172.4	194.8	223.3
	El	21.6	26.5	28.6	29.4	28.7	20.8
	Sk	-23.6	-8.4	-2.2	-4.6	8.9	24.5
Enschede 6e9, 52n2	Az	138.4	153.8	164.6	172.3	195.0	223.5
	El	22.0	27.1	29.2	30.0	29.3	21.2
	Sk	-24.0	-8.7	-2.4	-4.7	9.1	25.0
Groningen 6e6, 53n2	Az	138.4	153.7	164.4	172.0	194.4	22.8
	El	21.1	26.1	28.1	28.9	28.3	20.6
	Sk	-23.4	-8.4	-2.3	-4.8	8.6	24.0
Harlem 4e6, 52n4	Az	136.0	151.2	161.8	169.5	192.1	221.1
	El	20.9	26.2	28.6	29.6	29.4	22.1
	Sk	-25.1	-10.1	-4.0	-6.4	7.3	23.6
Hoogeveen 6e5, 52n7	Az	138.1	153.4	164.2	171.8	194.3	222.9
	El	21.5	26.5	28.6	29.5	28.8	21.1
	Sk	-23.9	-8.7	-2.5	-4.9	8.6	24.4
Leeuwarden 5e8, 53n2	Az	137.6	152.8	163.4	171.0	193.4	222.0
	El	20.8	25.8	28.0	28.9	28.4	21.0
	Sk	-23.8	-8.9	-2.8	-5.4	8.0	23.6
Maastricht 5e7, 50n8	Az	136.5	151.9	162.8	170.6	193.7	222.8
	El	22.6	28.1	30.4	31.4	31.0	22.9
	Sk	-25.8	-10.3	-3.8	-5.9	5.4	25.5
Nijmegen 5e9, 51n8	Az	137.1	152.4	163.2	171.0	193.7	222.6
	El	21.9-	27.1	29.4	30.3	29.8	22.0
	Sk	24.9	-9.6	-3.3	-5.6	8.5	24.8
Roermond 6e0, 51n2	Az	137.0	152.4	163.3	171.0	194.0	223.0
	El	22.4	27.8	30.1	31.0	30.5	22.4
	Sk	-25.3	-9.9	-3.4	-5.6	8.7	25.3
Rotterdam 4e5, 51n9	Az	135.7	150.8	161.5	169.2	192.0	221.1
	El	21.2	26.6	29.0	30.1	30.0	22.5
	Sk	-25.5	-10.5	-4.3	-6.6	7.4	24.0
Tilburg 5e1, 51n6	Az	136.2	151.4	162.2	169.9	192.8	221.9
	El	21.7	27.1	29.5	30.5	30.2	22.6
	Sk	-25.5	-10.3	4.0	-6.2	7.9	24.5
Utrecht 5e1, 52n1	Az	136.4	151.6	162.4	170.0	192.7	221.7
	El	21.3	26.7	29.0	30.0	29.7	22.1
	Sk	-25.1	-10.0	-3.8	-6.1	7.8	24.1
Venlo 6e2, 51n3	Az	137.3	152.6	163.5	171.3	194.2	223.2
	El	22.4	27.8	30.0	30.9	30.3	22.3
	Sk	-25.1	-9.7	-3.2	-5.4	8.8	25.3
Warden 5e8, 53n1	Az	137.5	152.7	163.4	171.0	193.4	222.0
	El	20.9	25.9	28.1	29.0	28.5	21.0
	Sk	-23.9	-9.0	-2.9	-5.4	8.0	23.7

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Spain

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Albacete 1w8, 39n0	Az	123.2	137.4	148.6	157.2	185.0	220.4
	El	26.3	35.2	39.8	42.3	44.7	36.3
	Sk	-40.5	-24.7	-16.9	-17.5	3.9	30.3
Algeciras 5w5, 36n2	Az	118.4	-37.2	142.1	150.5	179.2	217.7
	El	25.2	35.1	40.6	43.7	48.1	40.7
	Sk	-45.2	-30.2	-22.7	-23.4	-0.7	29.5
Alicante 0w5, 38n4	Az	124.1	138.6	150.0	158.9	187.2	222.3
	El	27.6	36.5	41.0	43.4	45.3	36.0
	Sk	-40.4	-24.2	-16.1	-16.4	5.7	31.9
Almeria 2w5, 36n9	Az	121.4	135.4	146.5	155.3	184.2	221.0
	El	27.1	36.5	41.6	44.2	47.2	38.4
	Sk	-43.0	-27.2	-19.2	-19.6	3.3	31.6
Avila 4w7, 40n7	Az	121.5	135.2	145.8	153.9	180.4	215.9
	El	23.4	32.2	37.0	39.6	43.0	36.3
	Sk	-40.2	-25.3	-18.3	-19.5	0.4	26.4
Badajoz 7w0, 38n8	Az	118.6	131.7	141.9	149.9	176.8	214.1
	El	22.7	32.2	37.5	40.5	45.0	39.1
	Sk	-43.2	-28.6	-21.7	-23.0	-2.5	25.9
Barcelona 2e2, 41n4	Az	128.4	143.6	155.2	163.9	190.8	223.6
	El	27.5	35.3	39.1	40.9	41.6	32.1
	Sk	-36.0	-19.5	-11.4	-12.3	8.1	31.2
Bilbao 2w9, 43n3	Az	124.5	138.6	149.3	157.4	183.0	216.7
	El	23.1	31.1	35.4	37.6	40.1	33.2
	Sk	-36.8	-21.8	-14.8	-16.3	2.2	25.8
Burgos 3w7, 42n4	Az	123.3	137.3	147.9	156.0	182.0	216.3
	El	23.1	31.5	35.9	38.3	41.1	34.3
	Sk	-38.1	-23.1	-16.1	-17.5	1.4	25.9
Cadiz 6w3, 36n5	Az	117.9	130.8	141.2	149.5	177.8	216.4
	El	24.4	34.3	39.8	43.0	47.6	40.9
	Sk	-45.3	-30.5	-23.2	-24.1	-1.8	28.5
Cartagena 1w0, 37n6	Az	123.2	137.6	149.0	157.8	186.6	222.3
	El	27.7	36.8	41.5	44.0	46.2	36.9
	Sk	-41.5	-25.3	-17.1	-17.4	5.2	32.2
Cordoba 4w8, 37n8	Az	119.9	133.3	144.0	152.3	180.3	217.5
	El	24.8	34.3	39.5	42.3	46.2	38.9
	Sk	-43.2	-28.1	-20.7	-21.5	0.3	28.8
Gijon 5w7, 43n5	Az	122.1	135.7	146.0	153.8	179.0	213.2
	El	21.1	29.4	33.9	36.4	39.8	34.2
	Sk	-37.9	-23.4	-16.9	-18.7	-0.7	-0.7
Granada 3w6, 37n2	Az	120.6	134.3	145.2	153.8	182.3	219.4
	El	26.1	35.6	40.7	43.5	46.9	38.8
	Sk	-43.3	-27.8	-20.1	-20.6	1.8	30.4
Hospitalet de Llobregat 2e1, 41n4	Az	128.3	143.4	155.0	163.7	190.7	223.5
	El	27.5	35.3	39.1	40.9	41.7	32.1
	Sk	-36.0	-19.6	-11.5	-12.1	8.0	31.1
La Coruna 8w4, 43n3	Az	119.6	132.7	142.7	150.3	175.0	210.0
	El	19.5	28.1	32.9	35.6	39.9	35.5
	Sk	-39.3	-25.3	-19.2	-21.2	-3.6	21.3
Las Palmas 15w4, 28n1	Az	106.8	116.3	124.3	131.0	158.7	208.9
	El	20.2	32.3	39.9	44.7	55.2	53.5
	Sk	-57.6	-45.3	-39.8	-41.8	-18.7	25.3
Madrid 3w7, 40n4	Az	122.3	136.2	146.9	155.1	182.0	217.3
	El	24.2	33.0	37.7	40.2	43.3	36.0
	Sk	-40.1	-24.8	-17.6	-18.6	1.5	27.5
Malaga 4w4, 36n7	Az	119.6	133.1	143.8	152.3	181.0	218.7
	El	25.7	35.4	40.7	43.6	47.4	39.6
	Sk	-44.2	-28.9	-21.2	-21.9	0.8	30.1
Palma de Mallorca 2e7, 39n6	Az	127.9	143.1	155.0	164.0	191.9	225.2
	El	29.0	37.1	41.1	43.0	43.5	33.2
	Sk	-37.4	-20.6	-12.0	-12.3	9.2	33.2
Salamanca 5w7, 41n0	Az	120.9	134.3	144.8	152.8	179.0	214.6
	El	22.6	31.4	36.3	38.9	42.7	36.5
	Sk	-40.4	-25.7	-18.8	-20.2	-0.8	25.3
San Sebastian 2w0, 43n3	Az	125.4	139.7	150.5	158.7	184.4	217.8
	El	23.6	31.6	35.7	37.8	40.0	32.7
	Sk	-36.4	-21.1	-14.0	-15.3	3.2	26.5
Santa Cruz de la Palma 17w8, 28n7	Az	105.6	114.9	122.5	128.9	154.7	204.3
	El	18.0	30.1	37.6	42.5	53.7	53.9
	Sk	-57.7	-45.7	-36.1	-43.1	-22.0	21.1
Santa Cruz de Tenerife 16w3, 28n5	Az	106.4	115.9	123.8	130.4	157.3	207.2
	El	19.4	31.5	39.0	43.8	54.5	53.5
	Sk	-57.5	-45.3	-39.9	-42.0	-19.8	23.6
Santander 3w9, 43n5	Az	123.7	137.7	148.3	156.2	181.7	215.5
	El	22.3	30.5	34.8	37.1	39.9	33.4
	Sk	-37.1	-22.3	-15.5	-17.0	1.2	24.9
Sevilla 6w0, 37n4	Az	118.7	131.8	142.2	150.4	178.4	216.3
	El	24.2	33.9	39.3	42.3	46.7	39.9
	Sk	-44.2	-29.3	-22.1	-23.1	-1.3	28.0
Valencia 0w7, 39n3	Az	124.5	139.0	150.3	159.5	186.8	221.6
	El	26.9	35.6	40.0	42.3	44.3	35.3
	Sk	-39.6	-23.2	-15.1	-15.7	5.2	30.9
Valladolid 4w7, 41n6	Az	122.0	135.7	146.3	154.3	180.4	215.4
	El	22.8	31.5	36.1	38.6	41.9	35.5
	Sk	-39.3	-24.5	-17.5	-18.9	0.3	25.7
Vigo 8w7, 42n2	Az	118.8	131.8	141.8	149.4	174.5	210.2
	El	19.8	28.7	33.7	36.5	41.1	36.7
	Sk	-40.5	-26.5	-20.3	-22.4	-4.1	21.8

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Switzerland

Az = Azimuth El = Elevation Sk = Skew

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Basel 7e6, 47n6	Az	137.1	153.0	164.5	172.7	196.9	226.2
	El	26.0	31.8	34.2	35.1	34.0	24.4
	Sk	-27.3	-10.8	-3.4	-4.9	11.3	29.1
Bern 7e4, 47n0	Az	136.7	152.6	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-27.9	-11.3	-3.8	-5.2	11.3	29.5
Biel 8e2, 46n5	Az	137.3	153.4	165.0	173.4	198.0	227.4
	El	27.2	33.1	35.5	36.4	35.0	24.9
	Sk	-27.8	-11.0	-3.3	-4.5	12.2	30.4
Genf 6e2, 46n2	Az	135.0	150.7	162.2	170.6	195.3	225.3
	El	26.3	32.6	35.3	36.4	35.7	26.2
	Sk	-29.3	-12.8	-5.2	-6.5	10.6	29.5
Köniz 7e4, 46n9	Az	136.7	152.5	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-28.0	-11.4	-3.8	-5.2	11.4	29.6
Lausanne 6e7, 46n5	Az	135.7	151.4	162.9	171.3	195.9	225.7
	El	26.4	32.5	35.1	36.1	35.3	25.7
	Sk	-28.7	-12.2	-4.6	-6.0	10.9	29.6

		Türk sat 2A, 3A	Astra 2A-2D Euro bird 1	Astra 1F-1H/ 1KR/1L/ 1M	Hot bird 6/7A/8	Atlantic bird 3	Hispa sat 1C,1D
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Locarno 8e8, 46n2	Az	137.8	154.0	165.7	174.2	198.8	228.1
	El	27.7	33.6	35.9	36.7	35.2	24.8
	Sk	-27.7	-10.7	-2.8	-4.0	12.9	31.0
Luzern 7e9, 47n0	Az	137.2	153.2	164.7	173.1	197.4	226.8
	El	26.6	32.4	34.8	35.7	34.5	24.6
	Sk	-27.6	-10.9	-3.4	-4.7	11.8	29.8
Sankt Gallen 9e4, 47n4	Az	139.0	155.2	166.8	175.1	199.2	228.1
	El	27.0	32.5	34.7	35.4	33.7	23.6
	Sk	-26.4	-9.5	-1.9	-3.3	12.9	30.3
Thun 7e6, 46n8	Az	136.8	152.8	164.3	172.7	197.1	226.6
	El	26.7	32.6	35.0	36.0	34.8	25.0
	Sk	-28.0	-11.3	-3.7	-5.1	11.6	29.8
Winterthur 8e8, 47n5	Az	138.4	154.4	166.0	174.2	198.4	227.4
	El	26.6	32.2	34.5	35.3	33.8	23.9
	Sk	-26.7	-9.9	-2.4	-3.8	12.3	29.9
Zürich 8e6, 47n4	Az	138.1	154.1	165.7	174.0	198.1	227.3
	El	26.6	32.3	34.6	35.4	34.0	24.0
	Sk	29.8	-10.1	-2.6	-4.0	12.2	29.8

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Denmark

Az = Azimuth El = Elevation Sk = Skew

		Astra 2A-2D / Euro bird 1	Astra 1E/3A	Astra 1F-1H/ 1KR/1L/ 1M	Eutelsat W2	Hotbird 6/7A/8	Eutelsat W1	Eutelsat W3A	Sirius 4	Thor 3/5 / Intelsat 10-02	Atlantic bird 3	Hispasat 1C,1D
		28.2E	**23.5 E**	**19.2E**	**16.0E**	**13.0W**	**10.0W**	**7.0E**	**5.0E**	**1.0W**	**5.0W**	**30.0 W**
Alborg 9e9, 57n1	Az	158.5	163.9	169.0	172.8	176.3	179.9	183.5	187.0	193.0	197.6	224.9
	El	23.1	23.9	24.6	24.9	25.0	25.1	25.0	24.8	24.4	23.8	16.3
	Sk	-4.5	-1.7	1.0	-3.9	-2.0	-0.1	1.9	3.8	7.0	9.4	22.5
Arhus 10e2, 56n2	Az	158.7	164.1	169.2	173.0	176.7	180.3	183.9	187.5	193.4	198.1	225.5
	El	24.1	24.9	25.5	25.8	26.0	26.0	26.0	25.7	25.3	24.6	16.9
	Sk	-4.7	-1.8	1.0	-3.9	-1.9	0.1	2.1	4.1	7.4	10.0	23.4
Esbjerg 8e5, 55n5	Az	156.5	162.0	167.0	170.9	174.5	178.1	181.8	185.5	191.4	196.2	224.0
	El	24.3	25.3	26.0	26.4	26.7	26.8	26.8	26.6	26.2	25.6	18.1
	Sk	-6.1	-3.1	-0.3	-5.1	-3.1	-1.0	1.0	3.1	6.5	9.1	23.2
Helsingor 12e6, 56n1	Az	161.4	166.9	172.1	175.9	179.6	183.2	186.8	190.3	196.3	201.0	228.0
	El	24.7	25.4	25.9	26.1	26.2	26.1	26.0	25.6	25.0	24.2	15.9
	Sk	-3.2	-0.2	2.6	-2.3	-0.3	1.8	3.8	5.7	9.0	11.5	24.5
Horsens 10e1, 57n1	Az	158.8	164.2	169.2	173.0	176.6	180.1	183.7	187.3	193.2	197.8	225.1
	El	23.1	24.0	24.5	24.8	25.0	25.0	25.0	24.8	24.3	23.7	16.2
	Sk	-4.4	-1.5	1.2	-3.8	-1.9	0.1	2.0	3.9	7.1	9.6	22.6
Kobenhavn (Kopenhagen) 12e6, 55n7	Az	161.3	166.9	172.0	175.8	179.5	183.1	186.7	190.4	196.3	201.0	228.0
	El	25.0	25.8	26.3	26.5	26.6	26.5	26.4	26.1	25.4	24.6	16.2
	Sk	-3.4	-0.4	2.5	-2.3	-0.3	1.8	3.8	5.8	9.1	11.7	24.8
Kolding 9e5, 55n5	Az	157.7	163.2	168.3	172.1	175.8	179.4	183.0	186.7	192.7	197.4	225.0
	El	24.6	25.5	26.2	26.5	26.7	26.8	26.7	26.5	26.1	25.4	17.7
	Sk	-5.4	-2.4	0.4	-4.5	-2.4	-0.3	1.7	3.8	7.1	9.8	23.6
Odense 10e4, 55n4	Az	158.7	164.2	169.4	173.2	176.9	180.5	184.1	187.8	193.8	198.5	226.0
	El	24.9	25.8	26.4	26.7	26.8	26.9	26.8	26.6	26.0	25.3	17.3
	Sk	-4.9	-1.9	1.0	-3.9	-1.8	0.3	2.3	4.4	7.8	10.4	24.1
Randers 10e1, 56n5	Az	158.5	164.1	169.1	172.9	176.5	180.1	183.7	187.3	193.2	197.9	225.2
	El	23.7	24.6	25.2	25.5	25.7	25.7	25.7	25.4	25.0	24.3	16.7
	Sk	-4.7	-1.7	1.0	-3.9	-1.9	0.1	2.1	4.0	7.3	9.8	23.1
Roskilde 12e, 55n7	Az	160.8	166.3	171.4	175.3	178.9	182.6	186.2	189.8	195.8	200.5	227.6
	El	25.0	25.7	26.3	26.5	26.6	26.6	26.4	26.1	25.5	24.8	16.4
	Sk	-3.7	-0.7	2.2	-2.7	-0.6	1.4	3.5	5.5	8.8	11.3	24.6
Vejle 9e6, 55n7	Az	157.8	163.3	168.4	172.2	175.8	179.5	183.1	186.8	192.7	197.4	225.0
	El	24.3	25.3	25.9	26.3	26.4	26.5	26.5	26.3	25.8	25.2	17.5
	Sk	-5.3	-2.3	0.5	-4.4	-2.3	-0.3	1.8	3.8	7.2	9.8	23.5

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Finland

Az = Azimuth El = Elevation Sk = Skew

		Astra 2A-2D / Euro bird 1	Astra 1E/3A	Astra 1F-1H/ 1KR/1L/ 1M	Eutelsat W2	Hotbird 6/7A/8	Eutelsat W1	Eutelsat W3A	Sirius 4	Thor 3/5 / Intelsat 10-02	Atlantic bird 3	Hispasat 1C,1D
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Espoo 24e7, 60n2	Az	176.0	181.4	186.3	190.0	193.4	196.8	200.2	203.5	209.0	213.3	238.4
	El	21.7	21.7	21.6	21.3	21.1	20.6	20.1	19.5	18.4	17.3	8.1
	Sk	5.0	7.7	10.2	5.0	6.6	8.3	9.9	11.4	14.0	15.8	25.1
Helsinki 25e0, 60n1	Az	176.3	181.7	186.7	190.4	193.8	197.2	200.5	203.9	209.4	213.7	238.7
	El	21.8	21.8	21.6	21.4	21.0	20.6	20.1	19.5	18.3	17.3	8.0
	Sk	5.1	7.9	10.3	5.1	6.8	8.5	10.1	11.6	14.2	16.0	25.2
Jyväskylä 25e8, 62n3	Az	177.3	182.6	187.5	191.1	194.4	197.8	201.1	204.3	209.7	214.0	239.0
	El	19.5	19.5	19.3	19.1	18.8	18.4	17.9	17.3	16.2	15.2	6.5
	Sk	5.8	8.2	10.5	5.1	6.6	8.1	9.6	11.0	13.3	15.1	23.5
Kotka 26e9, 60n4	Az	178.5	183.9	188.9	192.5	195.9	199.3	202.6	205.9	211.3	215.6	240.5
	El	21.5	21.5	21.2	20.9	20.5	20.0	19.5	18.8	17.6	16.4	7.0
	Sk	6.3	8.9	11.4	6.1	7.8	9.4	10.9	12.5	14.9	16.7	25.5
Kuopio 27e7, 62n9	Az	179.4	184.7	189.5	193.1	196.4	199.7	203.0	206.3	211.6	215.8	240.6
	El	18.9	18.8	18.6	18.3	17.9	17.4	16.9	16.3	15.2	14.1	5.5
	Sk	6.7	9.2	11.3	5.9	7.4	8.8	10.3	11.6	13.8	15.5	23.4
Lahti 25e7, 61n0	Az	177.1	182.5	187.4	191.0	194.4	197.8	201.1	203.7	209.9	214.1	239.1
	El	20.9	20.9	20.7	20.4	20.1	19.7	19.1	14.7	17.4	16.3	7.3
	Sk	5.6	8.2	10.6	5.3	7.0	8.5	10.1	9.8	14.0	15.8	24.6
Oulu 25e4, 65n0	Az	176.9	182.1	186.9	190.4	193.7	196.9	200.2	203.4	208.7	213.0	238.0
	El	16.7	16.7	16.5	16.3	16.0	15.7	15.3	14.8	13.8	12.9	5.2
	Sk	5.7	7.9	9.9	4.4	5.7	7.1	8.4	9.7	11.7	13.3	21.0
Pori 21e8, 61n5	Az	172.7	178.1	183.0	186.5	189.9	193.3	196.7	200.1	205.5	209.8	235.3
	El	20.2	20.3	20.3	20.2	20.0	19.7	19.3	18.8	17.9	16.9	8.6
	Sk	3.5	6.1	8.4	3.1	4.8	6.3	7.9	9.4	11.9	13.8	23.1
Tampere 23e8, 61n5	Az	174.9	180.3	185.2	188.8	192.2	195.6	198.9	202.3	207.7	212.0	237.2
	El	20.2	20.4	20.2	20.0	19.8	19.4	18.9	18.4	17.4	16.4	7.8
	Sk	4.6	7.2	9.5	4.2	5.8	7.4	8.9	10.4	12.8	14.7	23.7
Turku 22e3, 60n5	Az	173.2	178.6	183.5	187.2	190.6	194.0	197.4	200.8	206.3	210.6	236.0
	El	21.3	21.4	21.4	21.3	21.0	20.7	20.3	19.7	18.7	17.7	9.0
	Sk	3.6	6.3	8.7	3.6	5.2	6.9	8.5	10.1	12.6	14.6	24.1
Vantaa 25e0, 60n3	Az	176.3	181.7	186.6	190.3	193.7	197.1	200.5	203.8	209.3	213.6	238.6
	El	21.6	21.6	21.5	21.2	20.9	20.5	19.9	19.4	18.2	17.1	7.9
	Sk	5.2	7.9	10.3	5.1	6.8	8.4	10.0	11.6	14.0	15.9	25.0

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Norway

Az = Azimuth El = Elevation Sk = Skew

		Astra 2A-2D / Euro bird 1	Astra 1E/3A	Astra 1F-1H/ 1KR/1L/ 1M	Eutelsat W2	Hotbird 6/7A/8	Eutelsat W1	Eutelsat W3A	Sirius 4	Thor 3/5 / Intelsat 10-02	Atlantic bird 3	Hispasat 1C,1D
		28.2E	**23.5 E**	**19.2E**	**16.0E**	**13.0W**	**10.0W**	**7.0E**	**5.0E**	**1.0W**	**5.0W**	**30.0 W**
Bergen 5e3, 60n4	Az	154.1	159.3	164.1	167.8	171.2	174.6	178.1	181.5	187.3	191.8	219.2
	El	18.9	19.8	20.5	20.9	21.2	21.4	21.5	21.5	21.3	21.0	15.4
	Sk	-5.5	-3.1	-0.8	-6.0	-4.4	-2.7	-1.0	0.7	3.6	5.8	18.2
Drammen 10e3, 59n8	Az	159.4	164.8	169.7	173.4	176.8	180.3	183.8	187.3	193.0	197.5	224.4
	El	20.5	21.2	21.8	22.0	22.2	22.2	22.2	21.9	21.5	21.0	14.2
	Sk	-3.2	-0.6	1.8	-3.3	-1.6	0.2	1.9	3.7	6.5	8.7	20.6
Kristiansand 8e0, 58n1	Az	156.6	161.9	166.9	170.6	174.1	177.7	181.2	184.7	190.6	195.2	222.6
	El	21.6	22.6	23.2	23.6	23.8	23.9	23.9	23.9	23.5	23.0	16.2
	Sk	-5.1	-2.4	0.1	-5.0	-3.1	-1.2	0.6	2.5	5.6	8.0	21.0
Oslo 10e8, 59n9	Az	160.0	165.4	170.3	173.9	177.4	180.9	184.3	187.9	193.5	198.1	224.9
	El	20.4	21.2	21.7	21.9	22.0	22.0	22.0	21.8	21.3	20.7	13.9
	Sk	-2.9	-0.3	2.1	-3.0	-1.3	0.5	2.2	3.9	6.8	9.0	20.8
Stavanger 5e8, 59n0	Az	154.3	159.6	164.4	168.1	171.6	175.0	178.5	182.1	187.9	192.5	220.0
	El	20.3	21.3	22.0	22.5	22.8	22.9	23.0	23.0	22.8	22.4	16.4
	Sk	-5.9	-3.4	-1.0	-6.1	-4.3	-2.5	-0.7	1.1	4.1	6.4	19.4
Trondheim 10e4, 63n6	Az	160.3	165.4	170.2	173.7	177.1	180.4	183.8	187.1	192.7	197.1	223.5
	El	16.7	17.4	17.8	18.0	18.1	18.1	18.1	18.0	17.6	17.1	11.3
	Sk	-1.7	0.6	2.6	-2.8	-1.3	0.2	1.7	3.2	5.6	7.5	17.8

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Sweden

Az = Azimuth El = Elevation Sk = Skew

		Astra 2A-2D Euro bird 1	Astra 1E/3A	Astra 1F-1H/ 1KR/1L/ 1M	Eutelsat W2	Hotbird 6/7A/8	Eutelsat W1	Eutelsat W3A	Sirius 4	Thor 3/5 Intelsat 10-02	Atlantic bird 3	Hispasat 1C,1D
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Malmö 13e0, 55n6	Az	161.8	167.3	172.5	176.4	180.0	183.6	190.9	187.3	196.8	201.5	228.5
	El	25.2	25.9	26.4	26.6	26.7	26.6	26.1	26.4	25.4	24.6	16.1
	Sk	-3.2	-0.1	2.8	-2.1	0.0	2.1	6.1	4.1	9.4	12.0	25.0
Norrköping 16e2, 58n6	Az	166.0	171.5	176.4	180.2	183.7	187.2	194.2	190.7	199.9	204.4	230.7
	El	22.6	23.1	23.4	23.5	23.4	23.2	22.6	23.0	21.8	21.0	12.7
	Sk	-0.3	2.6	5.1	0.1	2.0	3.8	7.4	5.6	10.2	12.5	23.8
Stockholm 18e1, 59n3	Az	168.3	173.7	178.7	182.4	185.9	189.4	194.1	192.8	201.9	206.4	232.3
	El	22.1	22.5	22.7	22.6	22.5	22.3	21.9	22.0	20.7	19.8	11.4
	Sk	1.0	3.8	6.3	1.3	3.0	4.8	7.2	6.5	11.0	13.1	23.8
Sundsval 17e2, 62n4	Az	167.6	172.9	177.7	181.4	184.7	188.1	194.8	191.5	200.4	204.7	230.6
	El	18.8	19.2	19.4	19.4	19.3	19.2	18.6	18.9	17.8	17.1	9.8
	Sk	1.3	3.7	6.0	0.6	2.2	3.8	6.8	5.3	9.3	11.2	21.0
Umea 21e2, 63n8	Az	172.2	177.4	182.2	185.8	189.1	192.4	199.0	195.7	204.5	208.7	234.2
	El	17.7	17.9	17.9	17.8	17.6	17.4	16.6	17.0	15.8	14.9	7.4
	Sk	3.6	5.9	8.0	2.6	4.0	5.5	8.3	6.9	10.5	12.3	21.0
Uppsala 17e6, 59n9	Az	167.8	173.2	178.2	181.9	185.4	188.8	195.6	192.2	201.3	205.7	231.7
	El	21.4	21.9	22.0	22.0	21.9	21.7	21.1	21.4	20.2	19.4	11.2
	Sk	0.9	3.6	6.1	0.9	2.7	4.4	7.8	6.1	10.5	12.6	23.2
Vasteras 16e5, 59n6	Az	166.5	171.9	176.9	180.6	184.1	187.6	194.4	191.0	200.1	204.6	230.7
	El	21.6	22.1	22.3	22.4	22.3	22.1	21.5	21.9	20.7	19.9	11.9
	Sk	0.2	2.9	5.4	0.3	2.1	3.8	7.2	5.5	10.0	12.1	23.1
Visby (Gotland) 18e3, 57n6	Az	168.3	173.9	178.9	182.7	186.3	189.8	196.8	193.3	202.5	207.0	233.0
	El	23.9	24.3	24.5	24.5	24.3	24.1	23.3	23.8	22.4	21.4	12.4
	Sk	0.8	3.7	6.4	1.5	3.4	5.2	8.9	7.1	11.9	14.1	25.4
Västervik 16e6, 57n7	Az	166.4	171.9	176.9	180.7	184.3	187.8	194.8	191.3	200.6	205.1	231.4
	El	23.6	24.1	24.4	24.4	24.3	24.1	23.5	23.9	22.6	21.7	13.1
	Sk	-0.2	2.7	5.4	0.4	2.3	4.2	7.9	6.0	10.8	13.1	24.7
Växjö 14e6, 56n9	Az	163.9	169.4	174.5	178.3	181.9	185.5	192.6	189.0	198.4	203.0	229.7
	El	24.1	24.8	25.1	25.2	25.2	25.1	24.6	24.9	23.8	23.0	14.5
	Sk	-1.7	1.2	4.0	-0.9	1.0	3.0	6.8	4.9	9.9	12.3	24.6
Örebro 15e1, 59n3	Az	164.8	170.3	175.2	178.9	182.4	185.9	193.3	189.4	198.5	203.0	229.4
	El	21.8	22.3	22.6	22.7	22.7	22.5	25.1	22.3	21.3	20.5	12.7
	Sk	0.7	2.0	4.6	-0.5	1.3	3.0	7.3	4.8	9.4	11.5	22.8
Östersund 14e7, 63n6	Az	165.0	170.2	175.0	178.5	181.9	185.2	191.9	188.6	197.4	201.8	227.9
	El	17.3	17.8	18.1	18.1	18.1	18.0	17.6	17.9	17.0	16.4	9.9
	Sk	0.4	2.7	4.8	-0.7	0.8	2.3	5.3	3.8	7.7	9.5	19.3
Malmö 13e0, 55n6	Az	161.8	167.3	172.5	176.4	180.0	183.6	190.9	187.3	196.8	201.5	228.5
	El	25.2	25.9	26.4	26.6	26.7	26.6	26.1	26.4	25.4	24.6	16.1
	Sk	-3.2	-0.1	2.8	-2.1	0.0	2.1	6.1	4.1	9.4	12.0	25.0
Norrköping 16e2, 58n6	Az	166.0	171.5	176.4	180.2	183.7	187.2	194.2	190.7	199.9	204.4	230.7
	El	22.6	23.1	23.4	23.5	23.4	23.2	22.6	23.0	21.8	21.0	12.7
	Sk	-0.3	2.6	5.1	0.1	2.0	3.8	7.4	5.6	10.2	12.5	23.8
Stockholm 18e1, 59n3	Az	168.3	173.7	178.7	182.4	185.9	189.4	194.1	192.8	201.9	206.4	232.3
	El	22.1	22.5	22.7	22.6	22.5	22.3	21.9	22.0	20.7	19.8	11.4
	Sk	1.0	3.8	6.3	1.3	3.0	4.8	7.2	6.5	11.0	13.1	23.8
Sundsval 17e2, 62n4	Az	167.6	172.9	177.7	181.4	184.7	188.1	194.8	191.5	200.4	204.7	230.6
	El	18.8	19.2	19.4	19.4	19.3	19.2	18.6	18.9	17.8	17.1	9.8
	Sk	1.3	3.7	6.0	0.6	2.2	3.8	6.8	5.3	9.3	11.2	21.0
Umea 21e2, 63n8	Az	172.2	177.4	182.2	185.8	189.1	192.4	199.0	195.7	204.5	208.7	234.2
	El	17.7	17.9	17.9	17.8	17.6	17.4	16.6	17.0	15.8	14.9	7.4
	Sk	3.6	5.9	8.0	2.6	4.0	5.5	8.3	6.9	10.5	12.3	21.0
Uppsala 17e6, 59n9	Az	167.8	173.2	178.2	181.9	185.4	188.8	195.6	192.2	201.3	205.7	231.7
	El	21.4	21.9	22.0	22.0	21.9	21.7	21.1	21.4	20.2	19.4	11.2
	Sk	0.9	3.6	6.1	0.9	2.7	4.4	7.8	6.1	10.5	12.6	23.2
Vasteras 16e5, 59n6	Az	166.5	171.9	176.9	180.6	184.1	187.6	194.4	191.0	200.1	204.6	230.7
	El	21.6	22.1	22.3	22.4	22.3	22.1	21.5	21.9	20.7	19.9	11.9
	Sk	0.2	2.9	5.4	0.3	2.1	3.8	7.2	5.5	10.0	12.1	23.1
Visby (Gotland) 18e3, 57n6	Az	168.3	173.9	178.9	182.7	186.3	189.8	196.8	193.3	202.5	207.0	233.0
	El	23.9	24.3	24.5	24.5	24.3	24.1	23.3	23.8	22.4	21.4	12.4
	Sk	0.8	3.7	6.4	1.5	3.4	5.2	8.9	7.1	11.9	14.1	25.4
Västervik 16e6, 57n7	Az	166.4	171.9	176.9	180.7	184.3	187.8	194.8	191.3	200.6	205.1	231.4
	El	23.6	24.1	24.4	24.4	24.3	24.1	23.5	23.9	22.6	21.7	13.1
	Sk	-0.2	2.7	5.4	0.4	2.3	4.2	7.9	6.0	10.8	13.1	24.7
Växjö 14e6, 56n9	Az	163.9	169.4	174.5	178.3	181.9	185.5	192.6	189.0	198.4	203.0	229.7
	El	24.1	24.8	25.1	25.2	25.2	25.1	24.6	24.9	23.8	23.0	14.5
	Sk	-1.7	1.2	4.0	-0.9	1.0	3.0	6.8	4.9	9.9	12.3	24.6
Örebro 15e1, 59n3	Az	164.8	170.3	175.2	178.9	182.4	185.9	193.3	189.4	198.5	203.0	229.4
	El	21.8	22.3	22.6	22.7	22.7	22.5	25.1	22.3	21.3	20.5	12.7
	Sk	0.7	2.0	4.6	-0.5	1.3	3.0	7.3	4.8	9.4	11.5	22.8
Östersund 14e7, 63n6	Az	165.0	170.2	175.0	178.5	181.9	185.2	191.9	188.6	197.4	201.8	227.9
	El	17.3	17.8	18.1	18.1	18.1	18.0	17.6	17.9	17.0	16.4	9.9
	Sk	0.4	2.7	4.8	-0.7	0.8	2.3	5.3	3.8	7.7	9.5	19.3

Note

As for an area not stated in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

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